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The
CHEMIST AND DRUGGIST
RETAILER - WHOLESALER - MANUFACTURER

AUGUST 28, 1948

an apple always falls downward

What is more commonplace than a ripe apple falling from a tree ? Sir Isaac Newton's genius sought the explanation. He found and expressed it in his law of universal gravitation. Newton's law, like the air we breathe, silently exerts its effects every second of each day.

As faithfully as the natural laws upon which it is based, the Lilly Policy works day in and day out for the welfare of the retail pharmacist. Its effects are readily observed in the steadily increasing flow of prescriptions to the pharmacies of the nation. The quality products, extensive research, and ethical marketing practices of the Lilly organization will continue to increase prescription volume.

Lilly
TRADE MARK

ELI LILLY & COMPANY LIMITED
BASINGSTOKE : HANTS

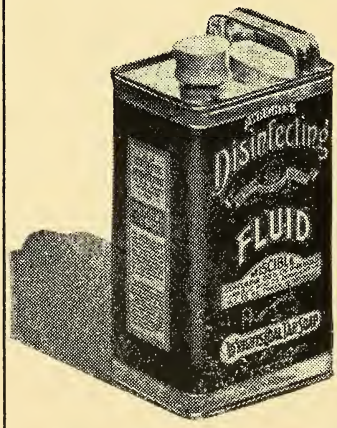
Index to Advertisers pp. 5 & 6

Their *prominent* display brings fast profitable SALES

Wright's LYSOL

a splendid antiseptic and disinfectant for cleaning and sterilising surgical instruments, disinfecting linen, sick-room utensils and equipment.

ONE OF WRIGHT'S PRODUCTS



Wright's DISINFECTING FLUID

a powerful antiseptic and germicide unsurpassed as a general domestic disinfectant and vermin killer.

WRIGHT LAYMAN & UMNEY LTD.,

SOUTHWARK STREET, LONDON, S.E.1. HOP. 4021 (10 lines)

ONE OF WRIGHT'S PRODUCTS

The

HIGH GERMICIDAL EFFICIENCY

of Cresantol-15—its R.W. coefficient is 65 when suitably formulated—is not by any means the only advantage this Monsanto germicide offers in the manufacture of modern antiseptic fluids. In these days of shortages, the

READY AVAILABILITY

of Cresantol-15 is of major importance. And, when you add

LOW COST

to both these advantages,

CRESANTOL-15

is well worthy of consideration if you are contemplating the manufacture of an efficient antiseptic fluid . .

Monsanto Chemicals Limited,
Victoria Station House, London, S.W.1.

MONSANTO CHEMICALS

For full general, technical and application data on Cresantol-15 write for Technical Service Bulletin No. 2B

SERVING INDUSTRY WHICH SERVES MANKIND

Crown & Anchor

The two bites H.M. Government took at the Purchase Tax cherry in November and April, certainly disorganised the proprietary trade in the home market.

To the dispensing chemist, chaos was added to confusion by the full impact of the new National Health Act following so swiftly on 5th July.

Many pharmacists at first hardly knew whether they were coming or going; whether they were making money or losing it. National Health scripts covering a bewildering range were well up. Private scripts were down. But whether one will balance the other or not, no one can tell. Counter sales have shown little consistency. Few pharmacists at this stage can even hazard a guess as to whether their capital, already stretched to finance doubled purchase tax, can now be pulled out still further to cover the large proportion of turnover formerly mainly on a cash basis — now on credit. And long credit too, for the Crown is the debtor and the mills of Whitehall grind exceedingly slow.

And what of the 'advertised proprietary' manufacturer? He's in a similar boat — but riding at anchor (and getting just as sea-sick). While the public have substantially maintained their purchasing, you have been trying to grapple with this freak storm and you haven't been able to order reg larly. What you have ordered h necessarily been on a more cautic basis. So every manufacturer h experienced fluctuating business on lower level for the time being, whi over all, resulted in piled up stock the one hand and a correspondin thinned down bank on the other.

We at Simpsons are rapidly adjust ourselves to the new swirl of trade.

One thing we are doing concerns y All our representatives are, of cou being retained, but with this differen They will be taken over by a n separate, selling organisation, wh will sell our products — and those other companies — on a sole age basis. Thus operating expenses can pared without disruption, so far our pharmacist friends are concern in the *status quo*. You will conti to be serviced by the same trusted r you have known and dealt with years.

The new selling organization wil skippered by our Managing Direc Mr. Walter R. Crowe. It will styled 'Walter Crowe Ltd.' headquarters at 3 & 4 Little Ru Street, London, W.C.1. So send y orders for our products to them, N to us, on and after the 1st Septem

Enterprise at a time like this? tainly. You can't play Crown Anchor successfully without it.

Announcement by:—J. W. SIMPSON (CHEMIST), LTD., 42/43 MUSEUM ST., W.C.1

an EVANS Product

Flybay keeps biting insects away!

A pleasant and effective protection against biting insects, contains Dimethylphthalate. One application keeps insects at bay for several hours. Dozen lots supplied ready packed in an eye-catching display outer.

FLYBAY
BRAND
INSECT REPELLENT

COST:
9/6d. per dozen
(plus tax at 33⅓%)
Retail Price
1/6d. (including tax).

Made in England by

EVANS MEDICAL SUPPLIES LTD

LIVERPOOL AND LONDON

189a-14/H8

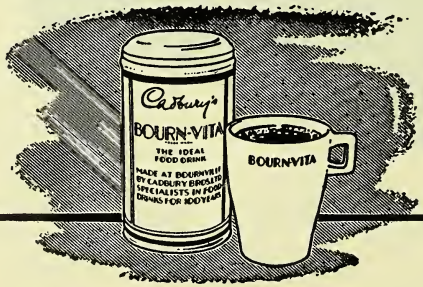
For GOOD TABLETS

THOMAS KERFOOT & CO. LTD., VALE OF BARDSLEY, LANCASHIRE

Cadbury's

BOURN-VITA

SUPPLIES MAY BE OBTAINED
THROUGH YOUR WHOLESALE DRUGGIST



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(*continued overleaf*)

These and other B.D.H. vitamin products have become firmly established in public confidence over a long period of years. Today, there is a greater need for them than ever before — are your stocks adequate to meet the need?

'Vibelan', Vitamin B Compound B.D.H., more recently introduced, is intended for those cases of lassitude, debility and associated vitamin B deficiency conditions so prevalent at the present time.

MORE MULTIVITE

It is no longer necessary for chemists to submit coupons when ordering.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

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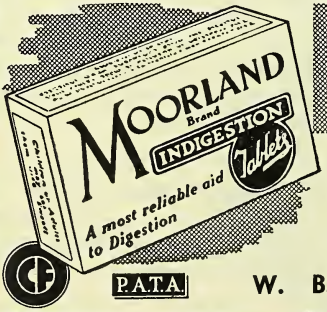
MORE KNOWN... MORE USED...
MORE RECOMMENDED... MORE
RELIED UPON... MORE POPULAR



MOORLANDS

THE NAME THAT MEANS MOST IN INDIGESTION REMEDIES

Retail prices: Moorlands 1/8 & 10d. (incl. Tax). Penetrol Inhalant 2/3 & 3/6 (incl. Tax). Urillac Tablets 8½d., 1/5, 3/4

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FOR THE PRESERVATION
OF INDIVIDUALITY

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UNITED CHEMISTS ASSOCIATION LIMITED. UCAL WORKS. CHELTENHAM.

Individualize YOUR Package with a PRIVATE Brand mark!

Adopt our C.O.B. (Chemist's Own Brand) method of Packaging which provides a Sales-Building individuality that can be achieved in no other way—AN OUTSTANDING SCHEME THAT

COSTS YOU NOTHING!

May we tell you the whole story? We'll gladly send samples and complete information.

ARTHUR H. COX & CO. LTD.

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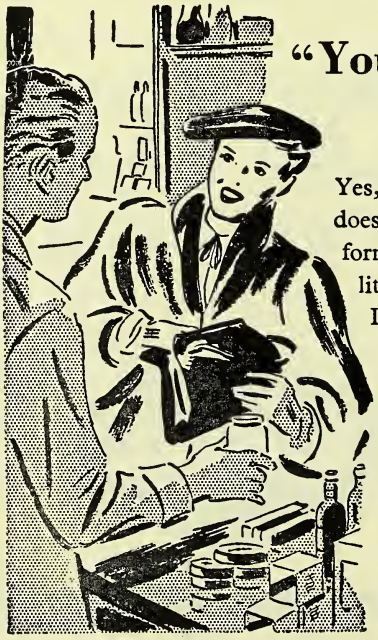
BRIGHTON, 7, SUSSEX



"You will find Musterole really *inexpensive*"

Yes, inexpensive because Musterole lasts longer does more good. Read the fine Musterol formula — you'll agree that it *should* cost little more. The best products always d Don't forget — recommend Musterol Your customers will thank you for it.

Musterole sells at 3/2 per pot and *bring you 3/8 per doz. extra profit over norm quality vapour rubs.*

MUSTEROLE BRAND

MUSTARD OINTMENT

★ *All the comforting warmth of a mustard plast — but easier to apply — you simply rub it in.*

Mary Drake

BATH AND TOILET SOAP

Retails at
2/6 and 1/3

A Soap of Charm and Distinction

A Product of
HARRY GREEN LTD., AJAX WORKS, BARKING, ESSEX.

'ASPRO' DISPLAYS MAKE CONTACT with a huge public

HERE'S THE REASON: 'ASPRO' has the largest sale—has **more** users—than any single medicinal line of its kind in the world. So that an 'ASPRO' display speaks directly to a huge public—and brings them in; 9 out of 10 of them stay to make other purchases as well. Countless chemists have found to their profit that displaying 'ASPRO' pumps new life into business when the general turnover is "limp." 14 days' window display qualifies you for bonus.

BUYING ON BONUS TERMS MEANS GREATLY INCREASED PROFITS

How much this means the following figures will show: on the very modest minimum order of 3 doz. 27's and 6 doz 5's (which yields a profit of 18s. 4d.), you receive stock **to the value of 10s. 6d.** as a free bonus. This **increases** your total profit over 50 per cent. Larger bonus *pro rata* on larger orders.

Made by ASPRO LTD., Slough, Bucks P.A.T.A.

Send for this Summer Plastic in Light Mauve and Green

PAPER BAGS ARE WORTH WATCHING

At present, we have good stocks of 2 oz. glazed transparent and 2 oz. white sulphite paper bags, so why not **ORDER WHILE YOU ARE SURE OF SUPPLIES?**

SELL MORE SEMO

TRADE MARK

CLOTHES WASHING POWD

because

SEMO is the new, *different* Clothes Washing Powder with definite advantages, made possible only by the scientific work of expert research chemists. Not a substitute, SEMO supersedes harsh acting, hand-coarsening preparations. Protects sensitive skins while ensuring easier, better, quicker results. SEMO is unequalled for heavy washing. A nationally advertised line with a good profit margin.

lathe so!

8½d NO COUPONS

Sole distributors:—
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(Tel. 40394) and 7c Lower Belgrave St., Lonc
S.W.1 (Tel. Sloane 9144)

'Semprolia'

D. D. T.

HAIR EMULSION

...a new effective treatment for head lice..

A new formula Emulsion, contai D.D.T. as the a ingredient, for control of head Pleasantly perfu and simple to use. Apply by massaging the scalp. No combi required except for th moval of dead lice. T ment is economic individual application drachms only.
List price 8/- (plus
Retail price 1/3 (incl. tax).

ALSO STILL RECOMMEND

'Semprolia'

BRAND

MEDICATED (LETHANE) HAIR OIL N.W.F.

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Richard Daniel & Son LTD

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"the Safe Remedy"

THE POWDER WITH A REPUTATION

For over 30 years Scotland's leading Proprietary Medicine

for the speedy relief of Headaches, Neuralgia, Neuritis and all Nerve Pains.

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ASKIT LTD MANUFACTURING CHEMISTS
GLASGOW N

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ALL LEADING WHOLESALE HOUSES

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Lockyers Sulphur Hair Restorer 4/4½

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Bunters Nervine 1/7

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If supplies are difficult please let us know

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Service for the Chemist only

Everything you need—in Quick Time

Comprehensive Stocks of Medical and Toilet Requisites. Post orders despatched same day. Weekly Van Service throughout the Midlands. John Knox Service is there for *You!*

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(Stoke-on-Trent), Ltd.

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Manufactured only by
J. F. WHITE & CO., LTD.
Lovington Laboratory, Benson Street, Le

D.C.L. VITAMIN B YEAST TABLE

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1·4 mgm. of Riboflavin, and 8 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B_1.
100 TABLETS 3/9d. 50 TABLETS 2/3d.

MANUFACTURED BY
THE DISTILLERS CO. LTD., EDINBURGH.

NOW ADVERTISED TO THE PUBLIC

COMMENCING **SEPT. 1st, 1948**

CODASPHEN TABLETS, already well-known to the pharmaceutical trade, are rapidly becoming increasingly popular with the public. Sales everywhere have grown considerably, purely on recommendation. Now, to give further impetus to sales — to help the chemist — an extensive and consistent advertising campaign in a wide range of publications will commence on Sept. 1, 1948, based on the theme—"**Four analgesics — Codeine Phosphate, Aspirin, Phenacetin and Caffeine — better than one.**"

Link your business with our advertising by prominently displaying the attractive Codasphen display outer (containing 1 doz. artistic aluminium tubes) and our showcard.

MOORE MEDICINAL PRODUCTS LTD

ABERDEEN LONDON OFFICE: 64 GLOUCESTER PLACE, W.1. LONDON
WELBECK 5718/9

BE PREPARED to meet the demand for these WIDELY ADVERTISED **CG** products:

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- ADAPTOPLAST First Aid Dressings.
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- HEALO OINTMENT.
- OZOMINT Tooth Paste.
- SANOIDS Mouth Wash Tablets.
- SANOID Dusting Powder.
- REGULOL Laxative Cream.
- SYLVIA Sanitary Towels.

In regular supply, only direct from:

CUXSON, GERRARD & Co., Ltd., OLDBURY

IBCOL *gives you* **BIGGEST** *advertising coverage!*

★ The STATISTICAL REVIEW shows that during the period of the last nine months — from August 1947 to April 1948 — IBCOL was the biggest advertiser in the field of disinfectants and germicides. IBCOL backs up your own window and counter displays with National and Local press advertising, posters on Hoardings and Buses, display cards on Tubes, etc.

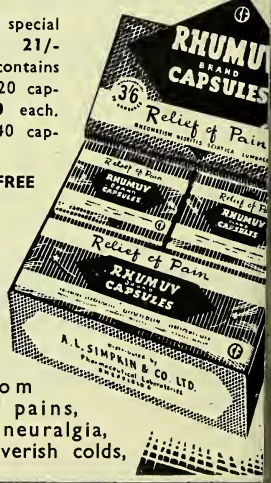
That's why it pays to display **IBCO** *products—They sell on sight!*

IBBETSON · STEVENAGE · HERTS

Here's a winne

This attractive special display outer 21/- (inc. P. Tax) contains six boxes of 20 capsules at 3/10 each. One box of 40 capsules at 7/2.

POSTAGE FREE



Relief from rheumatic pains, headaches, neuralgia, influenza, feverish colds,

"Simpkins of Sheffi

Common-Sense Distribution

– what it means to the Pharmacist

'hen you, as buyer, are offered ods — particularly new products — u cannot know whether they will ll quickly, slowly, or not at all. In e nature of things you have no eans of knowing the marketing plans d the ascertained facts supporting em, which alone can indicate the tent to which they are likely to ll. This will now be done for you a *new* organisation, Walter Crowe d. — created to function as dis-ibutors with a common-sense proach in regard to the products it fers you. It will know the whole of e manufacturers' plans — indeed it ill help to formulate them — and will only offer you merchandise hich is being properly marketed, for at is the only kind it will handle.

. . . . .

istribution, after all, means more an just the *availability* of products appropriate shops. It means the ow of merchandise from manufacturers public via suitable retail counters. therefore implies *movement.*

Distribution is clearly a part — but only a part — of marketing which, to be successful, depends equally on the product genuinely meeting a public need, right price, fair trade margins and most important, adequate advertising.

. . . . .

Walter Crowe Ltd. is well equipped to distribute in this sphere. Its field force is of seasoned 'reps.' — picked men of the highest integrity whom you, as pharmacist, have known and trusted for years. On the management side, there is a wealth of marketing experience which, to a greater or lesser extent, did much to ensure such outstanding marketing successes as 'Tek' Toothbrushes, 'Silvikrin', 'Steradent', Simpson's Foot Ointment, Nilblain and other products.

On our side, we will safeguard your interests by satisfying ourselves *in advance* that the products we bring you *will* sell. On your side, we bespeak your confidence and co-operation.

WALTER CROWE LTD.

DISTRIBUTORS

3/4, LITTLE RUSSELL STREET, LONDON W.C.1

TELEPHONE: CHANCERY 7051/2 TELEGRAMS: 'RELIALINES WESTCENT LONDON'

Firm Favourites!

with every member of the family . . . .

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM · BABY OIL

SHAVING CREAM · LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: **NEWBERY & PHILLIPS LTD.**
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

for

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

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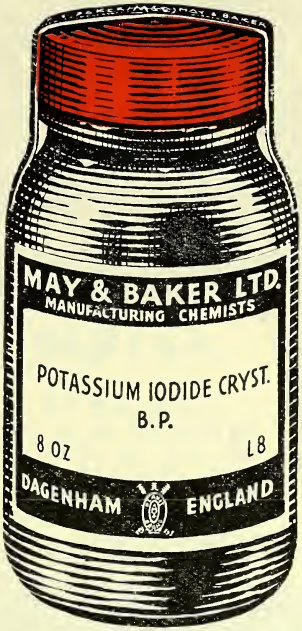

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M&B

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MALT & COD LIVER OIL

AW

BECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests. Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognised by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd. who are the leading authorities on its manufacture. These two ingredients are combined in the proportions recognised by the medical profession.

With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

On the P.A.T.A.

Wholesale Prices: 1 lb. Jars **18/9**; 2 lb. Jars **35/6**

Exempt from Purchase Tax

Retail Prices: 1 lb. Jars **2/-**; 2 lb. Jars **3/10½**

NOTE: Also supplied if required with attractive labels bearing your own name, at the same wholesale prices.

For further details write to:

A. WANDER, LTD.

5 & 7 Albert Hall Mansions

London, S.W.7

StaffAllenS

FOUNDED 1833

SOLID EXTRACTS

CASCARA, GLYCYRRH.,
GENTIAN, SENEGA,
KOLA, IPECAC,
ETC., ETC.

May we have your enquiries?

TAFFORD ALLEN & SONS LTD. Wharf Road, London, N. 1. 'Phone CLerkenwell 1000 (7 lines)

TAS/AL.260

ARE YOU READY FOR THE BIGGEST SEASON EVER?

'KEPLER'

This year, 'KEPLER' Sales are going *up and UP and UP!*

APRIL

MARCH

FEBRUARY

JANUARY

DECEMBER

NOVEMBER

OCTOBER

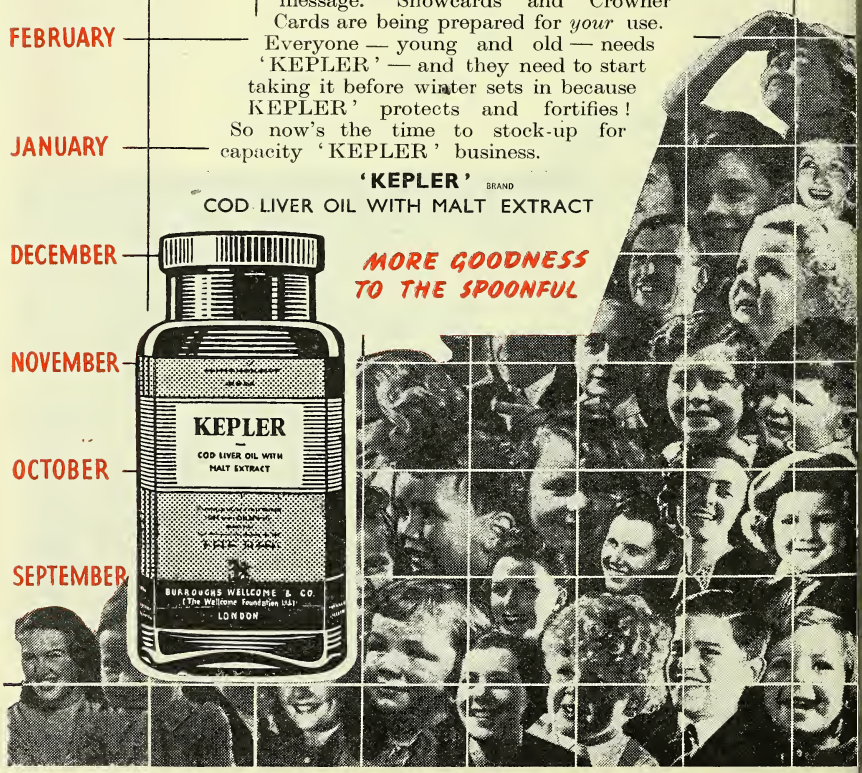
SEPTEMBER

The biggest national advertising campaign ever produced for 'KEPLER' starts in September. National Newspapers, National Periodicals, National Magazines with a total distribution of 248,885,733 will carry the 'KEPLER' message. Showcards and Crowner Cards are being prepared for *your* use. Everyone — young and old — needs 'KEPLER' — and they need to start taking it before winter sets in because KEPLER' protects and fortifies! So now's the time to stock-up for capacity 'KEPLER' business.

'KEPLER' BRAND

COD LIVER OIL WITH MALT EXTRACT

MORE GOODNESS TO THE SPOONFUL



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDO**
183/193 Euston Road, London, N.W.1 *Telephone: Euston 447*

UNPRECEDENTED DEMAND FOR

ANADIN

TRADE MARK

TABLETS

&

BiSoDoL

TRADE MARK

ANTACID-DIGESTANT

Owing to unprecedented demand in recent weeks there have been unfortunate delays in delivery . . .

further supplies on the way !

. . . we very much regret any inconvenience which may have been caused to our many friends and their customers. Every effort is being made to increase production and to ensure that all orders will be satisfactorily filled in the near future.

INTERNATIONAL CHEMICAL COMPANY LTD., CHENIES STREET, LONDON, W.C.1

BUTLER & CRISPE

L. H. CRISPE ESTAB. 1777 R. P. GOWER

PROPRIETARY MEDICINES · CHEMISTS' SUNDRIES · TOILET GOODS

IF IT'S THE NEW B.P.—
WE CAN SUPPLY IT!

IF IT'S A B.P. PHARMACEUTICAL—
WE STOCK IT!

IF IT'S THE B.P. (BEST POSSIBLE) SERVICE—
WE GIVE IT!

TRY OUR PROMPT 3-WAY SERVICE—

MOTOR — RAIL — POST

SEND YOUR ORDERS OR ENQUIRIES TO:—

80/84 CLERKENWELL ROAD · **LONDON** · **E.C.1**

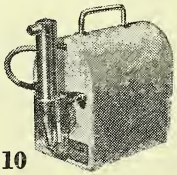
TELEPHONE: CLERKENWELL 3060 (15 lines) GRAMS: 'ALLUWANT' SMITH, LONDON

AIR STERILIZATION

by the AEROLYSER

Chemists who hold a T.S.A. Licence for the packing of penicillin, vaccines, etc., will find the Aerolyser a great help in keeping the air sterile in their Aseptic Room.

The M.A.3 Aerolyser, a portable, all-electric unit, produces a generous quantity of bactericide in 'aerosol' form which effectively destroys air-borne bacteria. This *dry mist* or aerosol is non-wetting and does not affect the products under preparation.



Price, as illustrated, **£25:10**

Please write for illustrated booklet (C.D./1).

AEROSOLS LIMITED

65 OLD BROMPTON RD., LONDON, S.W.7 • KEN. 7495

The line you've been waiting for!

Jay Cee

DIGESTIVE GUM PASTILLES

Something Entirely NEW
—and OFF POINTS

ORDER NOW!

There is sure to be a big demand for these pastilles. In 6d. cartons packed in three-dozen display outers, and in 5lb. tins

Send for wholesale terms to:

JOHN CHARLES, LTD.

415-7 Oxford Street, London, W.1

Phone: Mayfair 7838

JULY 5, 1948 JULY 5, 1948 JULY 5, 1948 JULY 5, 1948

IN THE VAN

THE NATIONAL HEALTH SERVICE ACT, 1946

. . . which came into operation on the fifth of July will undoubtedly make the pharmacist much busier. The inference to be drawn from the report of the "Working Party" on Pharmacy is that an increase of from 25% to 33⅓% in the consumption of drugs and medicines is to be anticipated for the coming winter. We are ready to do our part, with the goods and the means of rapid delivery: Daily van services in the London area and frequent country van deliveries.

HARKER, STAGG & MORGAN LTD.

EMMOTT STREET, LONDON, E.1

TELEPHONE: STEPNEY GREEN 2022

JULY 5, 1948 JULY 5, 1948 JULY 5, 1948 JULY 5, 1948

THE *Modern* ANTACID..

With your help BROOKLAX and BONOMINT ha become leading laxatives in this country. We no hope to have your co-operation in making MAGTR the popular remedy for indigestion.
To inaugurate the launching of MAGTRIZ TABLE we are making an

Introductory DOUBL BONUS OFFER

1. 33⅓% trade discount.
2. With your first order—2 packets FREE for every dozen ordered.
3. Attractive Publicity material.

Supported by a Press Campaign, and Publicity direct to the Medical Profession.

MAGTRIZ

DIGESTIVE TABLET

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

P.A.T.

WESTMINSTER LABORATORIES LTD., Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7

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PATENTS

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PILLS & TABLETS

DANGEROUS DRUGS

DRUGS & GALENICALS

ETHICAL PROPRIETARIES

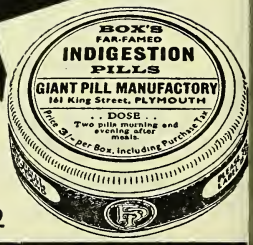
SMITH & HILL
(Chemists) Ltd.
SIDNEY ST., SHEFFIELD, 1
Phone: 24321

PUBLIC GOODWILL

Box's Pills have kept this Flag Flying for over 50 years and the demand now is greater than ever.

P.A.T.A.

PRICES
(Inc. P. Tax)
1/5 3/4
5/5
13/4 & 24/2



Box's Pills

W. H. BOX
161
KING STREET,
PLYMOUTH.

P.A.T.A.

A GOOD SHOW

will bring in the customers!

echam Home Medicines act as a gnet, and bring a steady flow of ular business to your counter. For t reason it is sound business policy maintain displays of:—

EECHAM'S LUNG SYRUP
EECHAM'S PILLS
EECHAM'S POWDERS

lourful show materials are ilable on request to enable u to make attractive dis- ys of these popular, quick- ing lines, whilst consist- Press and outdoor vertising provides a ong supporting link ween the customer d your premises.

ll enquiries should be addressed to:
ECHAMS PILLS LTD
ST. HELENS,
LANCASHIRE

R. A. CRIPPS & SON LTD.

MANUFACTURING CHEMISTS

HOVE

For over 50 years specialists in the manufacture of pharmaceutical preparations and galenicals

D'AVIGDOR ROAD, HOVE, SUSSEX

Telephones: HOVE 4712-3600

Eade's PILLS

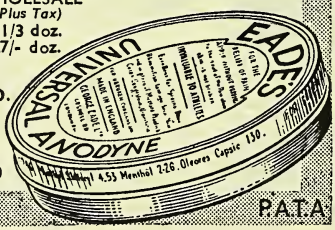
Eade's Rheumatic and Gout Pills, the remedy with a 100 year old fame.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.
6/3	46/- doz.

Eade's UNIVERSAL ANODYNE

Another Eade's product always in demand.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.



EADE'S PILLS LTD.
(Dept. C. & D),
232 Goswell Rd.,
LONDON, E.C.1.
Clerkenwell 3370

P.A.T.A.

Regd. **"Surgexa"** Trade M

SURGICAL DRESSINGS - CHEMISTS' SUNDI
PATENT MEDICINES

The CHEMISTS' SUNDRIES (Wholesale) CO.
330 STATION ROAD, BAMBER BRIDGE, PREST
Telephone 85403

INITIAL WINTER CAMPAIGN

Coltsfoot Rock 'enny Sticks, 6/9 Gross + 2/
Menthol & Liquorice Pellets 4½d. pkts. 30/-
+ 10/- P.T.
100's Standard Saccharin Tablets 84/- Gross.
100's Sweetening Tablets 81/- Gross.
Special Quotations for Larger Quantities. Ord
strict rotation. Cash with order. Immediate del
Lever, Brailsford & Co., Ltd., Radcliffe, Manc

SURE-SELLING STOC

OVER 150 YEARS REPUTA

KEARSLEY

THE ORIGINAL

WIDOW WELCH'S P

9d. BOX PROFIT by ordering l
3/3½ size. Bonus box given on
dozen (13). It pays to push th

C. & G. KEARSLEY
71 Dartmouth Rd., London,
Est. 1787

New Va£ues . . .

In response to the national call for a lowering of living costs, we are pleased to announce a reduction in price of all our well-known lines, to be effective on and after May 3rd, 1948. We have always aimed to supply the finest possible product at a price which is competitive, and in making this announcement of our reduced prices, we would stress that the quality of St. Andrew Mills productions remains as high as ever. Amended price lists showing purchase tax and profit margins will be sent willingly on request.

St. Andrew Mills reduce prices

ANDREX 1/0½D. PER ROLL	ANDROL 1/1½D. PER ROLL	STANEX 1/- PER ROLL
MARVO 9½D. PER ROLL	SAMARITAN 8D. PER ROLL	ANDREX PAPER KITCHEN TOWELS 1/9D. PER ROLL

★ *All above prices are retail and include purchase tax.*

WHOLESALE ONLY

ST. ANDREW MILLS LTD.

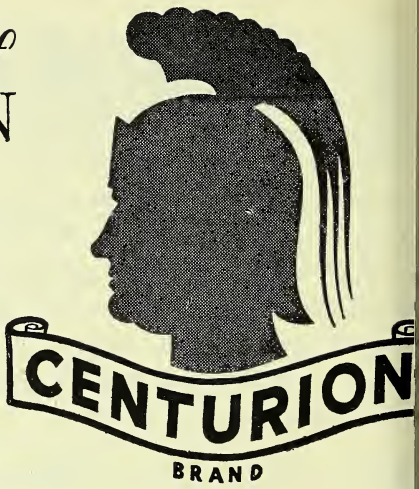
WALTHAMSTOW, E.17 *Tel : Larkswood* 1014·5·6

We regret that demands still exceed available supplies

We are proud of our CENTURION

We are proud of our "CENTURION" — proud of the reputation he has earned amongst Chemists and their customers. We jealously guard that reputation, by ensuring that the high standard of quality of "CENTURION" Brand PASTILLES and LOZENGES is consistently maintained.
A Representative regularly tours your area. Would you like him to call?

JACKSON OF CREDITON
EST. 1817



ERNEST JACKSON & COMPANY LIMITED · CREDITON · DEVO

LINES **STEP INTO THEIR PROPER PLACE IN FREE SUPPLY**

Flycatchers:
Honeypot Viper Tom Thumb Gorgon

DDT Flykillers:
Katydid (2d.) "Lanterns" (4d.)
also APEX Insect Guns • ERA Moth Cartridges and Sheets
ERA DDT Flyspray
DAK (Birdlime) for Mice and Rats— tubes 1/-, tins 1/9, 3/-
KAYBRO ANTI-MIDGE. Tubes 1/6

Write for samples and prices:
KAY BROTHERS LTD
Kayborough, Reddish, STOCKPORT

ALWAYS IN DEMAND

Beaulah's

MALTED MILK

PACKED IN ONE POPULAR SIZE
2/6

J. & J. BEAULAH LTD.
BOSTON, LINCS.

Fine CHEMICALS

rroughs Wellcome & Co. offer a selected range of fine chemicals on rticularly advantageous terms to bulk purchasers.

ch is the product of long manufacturing experience and strict analytical ntrol, and represents the highest attainable standards of quality and purity. rther details and quotations will be supplied on application to Bulk nemicals Section, 193, Euston Road, N.W.1.

DRENALINE
DRENALINE BITARTRATE
ENZAMINE HYDROCHLORIDE
ARBACHOL
INCHOPHEN
METINE HYDROCHLORIDE
RGOMETRINE
RGOMETRINE ACID MALEATE
RGOTOXINE ETHANESULPHONATE
HISTIDINE MONOHYDROCHLORIDE
HOMATROPINE HYDROBROMIDE
HYOSCINE HYDROBROMIDE
PETHIDINE HYDROCHLORIDE
STILBŒSTROL
STILBŒSTROL DIPROPIONATE
STROPHANTHIN-G (Ouabain)
K-STROPHANTHIN
SULPHAGUANIDINE
THYROXINE-SODIUM
***d*-TUBOCURARINE CHLORIDE**

BURROUGHS WELLCOME & CO.
(THE WELLCOME FOUNDATION LTD.) **LONDON**
ssociated Houses:
EW YORK MONTREAL SYDNEY CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO

Here is the

NEW 'CALFOS' ADVERTISING

★

Generous Profit Margin

Advertising is now appearing in daily papers and women's journals. This is a logical development of over 10 years of ethical selling and clinical trials. It will stimulate the demand for this palatable, natural form of calcium and phosphorus. *'Calfos' is an attractively priced, repeat sale line with a generous profit margin. Enquiries to our representatives or to:—*

CALFOS LTD., IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2

T.2

SUNGLASSES

for the 1948 Season

Fitted with

CROOKES LENSES

Ask your Wholesaler for details

Wholesale enquiries to :

ALFRED FRANKS & BARTLETT CO. LTD.

AUDREY HOUSE, ELY PLACE, LONDON, E.C.1

The Chemists' Standard

GIBSON'S 'MECCA' COUGH PASTILLES

Reta
Pric
1/
per
incl.

ARAB SERIES

ROBERT GIBSON & SONS, LTD
MANCHESTER & LONDON

Supplies are now available of

NURONA

Sunbronze and Suntan **CREAMS**

Made to a formula originally designed for sun-ray practitioners, the efficiency of Nurona is unsurpassed.

Nurona prevents or relieves painful sunburn and assists rapid tanning.

JAMES WOOLLEY, SONS, & CO. LTD.
Victoria Bridge, Manchester, 3

WN38

1/- PROFIT *for you*

ON EVERY 3/10 SIZE

CARTERS LITTLE LIVER PILLS

YOU'LL find no difficulty in selling the customer a large-size Carters—you have only to tell him he saves 10d. and gets 5 extra pills. Investigations show that one out of every three customers will buy the large-size Carters Little Liver Pills when it is offered. Supplies are readily available. Send your order now and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS ***Now!***

from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

CRILLS

No. 7 ETHYLENE OXIDE DERIVATIVE OF SORBITAN MONO-PALMITATE

This Crill is Sorbitan mono-palmitate reacted with ethylene oxide and thus rendered water-soluble. It will dissolve also in acid, alkaline and electrolyte solutions and in most organic solvents, but not in mineral oil. Crill No. 7 is a powerful emulsifier of the oil-in-water type, especially effective if Crill No. 2 is used as an auxiliary emulsifier. Viscosity at 25° C., 400-600 cps.; s.g. 1.05-1.10; Flash point 630° F; Surface tension (0.01%), 41 Dynes/cm at 25° C; Interfacial tension (0.1%), 11.5 Dynes/cm. at 25° C; Spreading co-efficient (0.1%)-21.0 ergs/cm².

SUGGESTED USES

Liquid Paraffin Emulsions
Hard Paraffin Emulsions
Self-emulsifying Waxes and Oils
Sun-tan Preparations
Insect Repellant Creams
Phenyl Phenol Emulsions
Oil Emulsion Sprays
Dispersible D.D.T. Powder

EXPORT

Crills can only be supplied to firms in the U.K. who furnish an undertaking to use them in products intended solely for export. Details of the B.O.T. declaration required will be sent to all firms interested.

London Office:
CRODA LTD
24 HAYMARKET,
LONDON, S.W.1
Telephone: WHItehall 4725/6
Telegrams: Crodapur Lesquare, London

CRODA LIMITED
CRODA HOUSE, SNAITH, GOOLE, YORKS.
Telephone: SNAITH 77 (3 lines)
Telegrams: CRODA, GOOLE

Manchester Office:
CRODA LTD
74 CORPORATION STREET
MANCHESTER, 4
Telephone: BLAckfriars 801

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

CHEMISTS' CF FORMULA

Supplies may be obtained from C.F. Wholesale Houses

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

An advance in

Asthma

medication

Respaton

TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

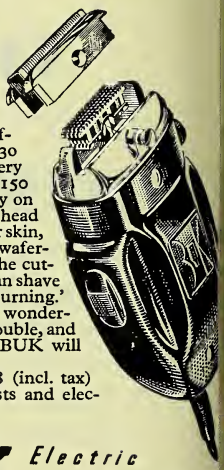
Formula

Ephedrine Hydrochloride...	$\frac{1}{4}$ *grain*
Ext. Bellad. Sicc. B.P. ...	$\frac{1}{10}$,,
Dioxyamidopyrine	$\frac{1}{2}$,,
Ipecac. Pulverat. B.P. ...	$\frac{1}{2}$,,
Theobromine	$\frac{3}{8}$,,
Calcium Lactate	$\frac{3}{8}$,,
Lactose	$\frac{3}{8}$,,

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.
In Bottles 25 tablets 4/4d.; 100 tablets 15/6d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.
West India House
Maryland Street, Liverpool, 1.

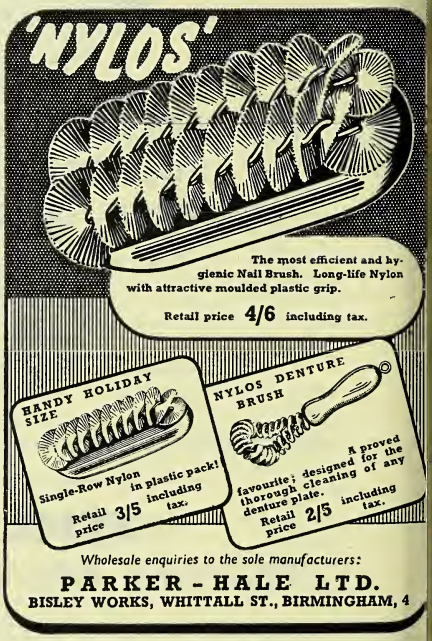
The BUK'S head means business



Each of BUK's 5 self-sharpening blades has 30 cutting edges, so with every move of the vibrator, 150 separate cutters get busy on your beard. BUK's head gently presses down your skin, which is shielded by a wafer-thin metal guard from the cutters, ensuring a close, clean shave without any pulling or 'burning.' Electric dry-shaving is a wonderful saving of time and trouble, and we believe a trial with BUK will convince you for life.
The BUK costs £4.17.8 (incl. tax) from good stores, chemists and electrical shops.

BUK *Electric Dry Shaver*

● GUY, MORRISON & CO. LTD., 3 Bayley Stree
Bedford Square, W.C.1. Museum 8744 (4 line



Wholesale enquiries to the sole manufacturers:

PARKER-HALE LTD.
BISLEY WORKS, WHITTALL ST., BIRMINGHAM, 4

To increase your sales!

Here is a real opportunity! Advertising for SevenSeaS this season will be stronger than ever. And there is a really fine showcard for you (17″ x 11″). Window display material, too — free of charge. Your displays have done much to increase sales in the past; and now, at last, we can help you to make your windows really striking. Don't delay. Write to-day for your showcard — for display material, too *(stating width and height of display space).*

IT WILL BRING CUSTOMERS INTO YOUR SHOP

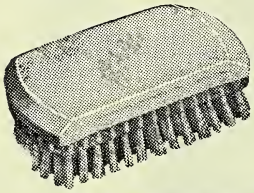
SEVENSEAS

PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

New Neolite Models

NEOLITE



Neolite Gent's Hairbrush

A man's brush of distinction in ivory finish. A style appealing strongly to all ages. Retail, inc. tax, plain top, 18/4. Fluted top, 22/11.

Neolite Bath Brush

A fascinating and graceful new design. The long handle is specially curved for added ease in use. The head can be detached to serve a dual purpose. A beautiful accessory for the modern bathroom. Retail 19/3 inc. tax.

Available in the following shades

Crystal with Opal, Pink, Cream, Yellow, Green, Blue, Peach, Turquoise, Amber, Ruby Red, Black, also clear designs.

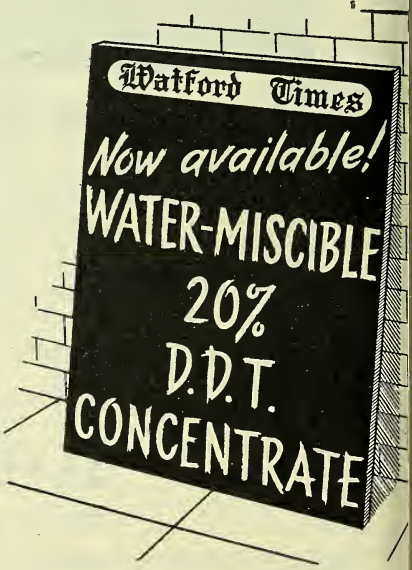
UNIVERSAL BRUSH CO. LTD. LUTON

Northern Ireland Agents and Distributors :
Jay-Bee Products (Belfast) Ltd., 7/13 Fleming Street, Belfast

IMPORTANT NEWS FOR ALL USERS OF D.D.T

NOW D.D.T. can be obtained in its most versatile and profitable form. For Watford, the specialists in solving emulsification problems, have applied their knowledge to the successful production of a water miscible D.D.T. concentrate. Non-staining, stable, with a guaranteed 20 per cent. D.D.T. content, this new Watford product opens up many possibilities for the employment of D.D.T. in spraying solutions and in any form of water-soluble compound. Gives exact control of percentages required, is easy and economical to handle.

Watford water-miscible 20% D.D.T. Concentrate is in unrestricted supply —let us send you prices and other details.



WATFORD CHEMICAL CO. LTD

30 BAKER STREET, LONDON, W.1

Tel. : WELbeck 0264/8 Cables : Watchempro, London

I love taking nasty medicines the TYEBRAND way!

For generations harassed mothers and stern fathers have been trying to bribe or cajole their tearful children into taking spoonfuls of castor oil, when all that was needed were a couple of TYEBRAND tasteless capsules popped into their mouths and swallowed. What could be simpler? No nasty taste and no tears—in fact, the "TYEBRAND way".

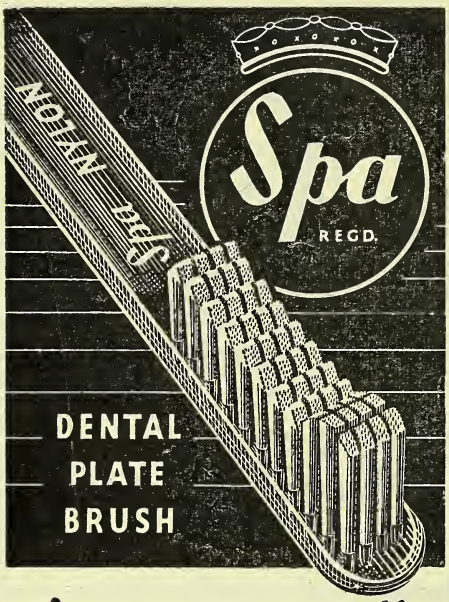
The range of TYEBRAND *Tasteless Capsules includes :—*

TYEBRAND Castor Oil Capsules.
TYEBRAND Halibut Liver Oil Capsules.
TYEBRAND Cod Liver Oil Capsules.
TYEBRAND Live Yeast Capsules.
TYEBRAND Liquid Paraffin Capsules.
TYEBRAND Cascara Sagrada Capsules.

JOHN TYE JT & SON, LTD.

Manufacturing Chemists and Capsule Makers since 1845

457-461 Caledonian Rd., London, N.7. Cables: Gelatinate, Holway, London



designed specially for the job

A Dental Plate Brush has a double job to do — it must clean every part of the plate as well as the dentures. No ordinary brush — and no adapted tooth-brush — can do this.

The SPA Dental Plate Brush has been specially designed for its particular job. The handle is correctly shaped. The bristles are of the right hardness, length and spacing.

The price is right. The PROFIT is right. It's a P.A.T.A. line. *And* it's a quick seller.

Supplies now available

John Freeman & Co. Ltd.,
Spa Brush Works, Chesham, Bucks.

What! *another*
LIQUID SHAMPOO?

Yes, but this is

EVAN WILLIAMS

A name that is synonymous with Shampoo perfection.

This liquid Shampoo has been introduced to meet the requests of those who want a safe, reliable shampoo in liquid form.

It is especially suitable for greasy hair but is intended to be a substitute for our original Evan Williams Shampoo which we believe to be the finest and most natural cleanser for hair of all types.

Our policy is to help chemists to satisfy customer demand, so we offer this LIQUID Soapless Shampoo with every confidence that your customers will be pleased with its efficacious cleansing properties.

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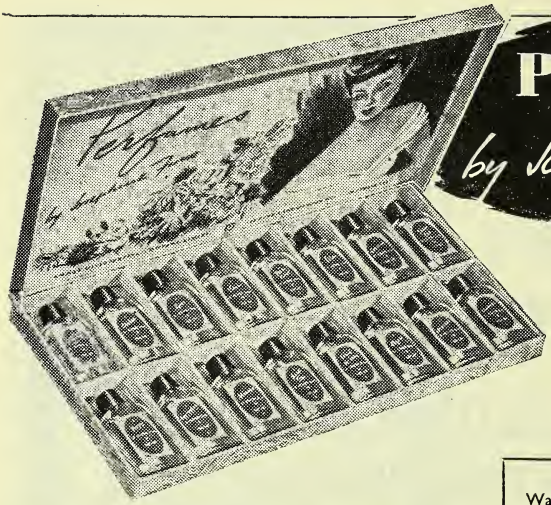

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AUGUST 28, 1948

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NEWS OF THE WEEK

Public Health Congress. — A public alth and municipal engineering congress d exhibition is to be held at Olympia, ondon, November 15-20.

Research Scholarship Awards. — The len & Hanburys research fellowship for 48 has been awarded to Mr. Yu Chun su, and the Pharmaceutical Society re-arch scholarship to Mr. Garth Williams.

Manchester Chemists' Golf. — In the nual competition for the E. Griffiths ughes prize, played by the Manchester harmaceutical Golfing Society on August 3, the winner was Mr. F. C. Baines (cap-in), with Mr. C. Finney runner-up.

Census of Distribution Subcommittee.—he President of the Board of Trade has t up a wholesale trades subcommittee to dvise him on the forms to be issued to holesale traders for the purposes of the rst national census of the distributive and ervice trades which is to be taken to over trading in 1949.

Middlesex N.H.I. Statistics.—The re-ort of the Middlesex Pharmaceutical ommittee for the period July 1, 1947-July 4, 1948, published recently, shows that 3,809,699 prescriptions were dispensed against 3,795,887 in the previous period. The total cost of ingredients was £220,750 (average 13.91d.) and of dispensing fees £102,395 (average 6.45d.).

Export Licensing Changes. — Under changes in export licensing control made by a Board of Trade Order in operation from September 1, export licences are no longer required for, among other goods, vitamin C, certain essential oils, electro-cardiographs, dressings and bandages containing rubber, and some chemical preparations. Licences are now required for cobalt in the forms specified in the Order.

Veterinary School for Bristol.—Bristol University has undertaken, with the concurrence of the Ministry of Agriculture and Fisheries and the University Grants Committee, to establish a new school of veterinary science as recommended by the Committee on Veterinary Education in 1943. The University has recently appointed Mr. F. Blakemore its first professor of veterinary medicine, and the first students are to be admitted in the autumn of 1949.

Opticians in Conference.—A conference on industrial visual welfare is being held at Reading, August 26-28, under the auspices of the Association of Optical Practioners. The programme includes a lecture and demonstration on "The Emergency Treatment of Eye Conditions" by Mr. W. J. Porter, M.P.S., D.Opt., and a lecture on "Routine Examination Adapted to the Needs of the Factory Optician" by Mr. D. W. A. Mitchell, M.P.S., F.B.O.A., D.Orth. (director of education, London Refraction Hospital).

British Empire Leprosy Survey.—Statistical revisions carried out by the medical department of the British Empire Leprosy Relief Association reveal that there are seven million lepers in the world, three million of them in the British Empire. Dr. Gordon Ryrie (medical secretary of the Association) claims that the new drugs being used — the sulphones, streptomycin, para-amino salicylic acid, etc.—are "full of promise—the use of sulphones is resulting in advanced cases clearing up." The Association appeals for an increase in its annual income to £50,000.

Taxability of Soap Substitutes.—The Customs and Excise authorities have issued a notice pointing out that soap substitutes (in liquid, solid or paste form) put up with any implication "by label, literature or in any form of publicity" that they are intended for use as shampoos, are chargeable with purchase tax at 33⅓ per cent., whether or not they require dilution before use. Soap substitutes put up with no claims or statements about their use as toilet preparations, or put up exclusively and specifically as household cleansers, are not chargeable.

British Association Annual Meeting.—The 110th annual meeting of the British Association for the Advancement of Science is to be held at Brighton, September 8-15. The programme of the mathematics and physics section includes a lecture by Mrs. D. Hodgkin, F.R.S., on "The Structure of Penicillin," and that of the physiology section a discussion on "The Transmission of Effects from the Endings of Nerve Fibres," introduced by Sir Henry Dale, F.R.S. Professor F. R. Miller, F.R.S., is to speak in the discussion on "Local Actions of Eserine and Acetylcholine on the Central Nervous System."

Presentation to Dr. J. Tait.—The Scottish Department of the Pharmaceutical Society has sent out a circular inviting members to subscribe to a presentation to Dr. Joseph Tait, who is severing his long official connection with the Department (see *C. & D.*, June 19, p. 789). The Executive has appointed a small local committee to arrange for the presentation, and ask for remittances (10s. is suggested), to be sent to Dr. David McCall, 36 York Place, Edinburgh. In the early autumn it is proposed to hold a reception in Edinburgh to which all subscribers will be invited, and at which the presentation will take place.

Chemists' Hours Criticised.—When a scheme for chemists' opening hours, providing for regular opening from 9 a.m. to 6 p.m. with a rota service to cover 6-7 p.m., was discussed by the Derbyshire Executive Council on August 19, a doctor member of the Council urged that the scheme should be more elastic, especially in the winter. The chairman pointed out that prescriptions marked "urgent" would be dispensed after 7 p.m. The scheme was approved for submission to the Minister of Health. At a meeting of the Birmingham Executive Council on August 13 the chairman deprecated as "premature" criticisms made by the local branch of the Socialist Medical Association against evening dispensing arrangements under the National Health Service. The subject was to be discussed at the next meeting of the Council's finance and general purposes committee.

PHARMACEUTICAL COMMITTEE APPOINTMENTS

Buckinghamshire. — *Chairman,* Mr. G. F. A. Downer; *Secretary,* Miss H. F. Walker, 46 Well Street, Buckingham.

Grimsby.—*Chairman,* Mr. T. A. Parker; *Vice-chairman,* Mr. G. R. Smith; *Secretary* and *Treasurer,* Miss P. M. Hayball, 43 Cleethorpe Road, Grimsby.

Ipswich.—*Chairman,* Mr. S. J. Stearn; *Secretary,* Mr. H. Starling, 203 Spring Road, Ipswich.

Isle of Wight. — *Chairman,* Mr. W. Ramage; *Secretary,* Mr. M. F. Thatcher, 47 High Street, Shanklin.

Lindsey (Lincs).—*Chairman,* Mr. E. V. Abraham; *Secretary* and *Treasurer,* Miss P. M. Hayball 431 Cleethorpe Road, Grimsby.

Northampton.—*Chairman,* Mr. C. W. H. Wolfe; *Secretary,* Mr. R. L. Ibbotson, 40 Masefield Way, Northampton.

Norwich. — *Chairman,* Mr. G. Baskerville; *Secretary,* Mr. D. G. Hunt, 20 Plumpstead Road, Norwich.

OVERSEAS NEWS

Belgian Congo Cinchona Production.—xports of cinchona bark from the Belgian ongo in 1947 totalled 276 long tons alue 4,968,000 francs). Quinine exports nounted to 1,746 kilos (value, fr. 584,000).

Liquorice Root Output in Turkey.—he total 1947-48 crop of liquorice root Turkey is expected to be in the region 17,000 metric tons. The carry-over from e 1946-47 crop in Anatolia is about 000 metric tons.

Egypt to receive Syrian Olive Oil.—greement has been reached between the rian and Egyptian Governments with gard to the barter of Egyptian cement r Syrian olive oil. Olive oil is urgently quired for soap production in Egypt.

Modified Penicillin Injection.—A proine penicillin injection containing 2 per nt. aluminium monostearate, and prered at the Bristol Laboratories, Syrase, New York, U.S.A., is claimed to maintain the therapeutic blood levels of penicillin for ninety-six hours after a single injection of 1 c.c. (300,000 units).

European Oil-seed Industry. — A marketing specialist of the Fats and Oils Branch of the U.S. Production and Marketing Administration is to carry out a study of the oil-crushing industry in selected European countries.

South African Chemical Output.—The chemical industry of South Africa has an annual output value of £31½ millions, according to Dr. H. J. van Eck (chairman, South African Chemical Institute), speaking at the second annual convention of the Institute recently.

German Firms at Stockholm Fair.—More than 100 German firms are exhibiting at the Stockholm St. Eric Fair, the Bizonal Economic Administration announced recently, including makers of chemical and pharmaceutical products. The Fair opened on August 25 and ends on September 5.

RAMBLE PRECEDES BRANCH MEETING

MEETING of the East Metropolitan ranch of the Pharmaceutical Society held Woodford Green on August 19 was eceded by a ramble through Epping orest in the course of which members spected ancient British earthworks at oughton Camp. The meeting opened with report by MR. W. H. CLOUD (secretary, est Ham Association of Pharmacists) on e Branch Representatives' meeting held n May 20. MR. Cloud said that the four solutions put forward by the branch had een well received, and several of the anges called for had since been made. Iessrs. G. P. Bowen, W. H. Cloud, J. eed and S. Robinson were appointed to tend the Branch Representatives' meetg at Brighton on September 2. MR. F. . WILSON (a member of the Pharmaceucal Society's Council) then spoke on the ational Health Service. He said that, nce July 5, the increase in dispensing xperienced by individual pharmacies had aried from 50 per cent. to 300 per cent.

ewer Private Scripts

There had been a marked reduction in e number of new private prescriptions resented, but little change in the number f "repeats." Unusual items prescribed had cluded invalid chairs, infants' feeding ottles, dry batteries, whisky and brandy, malted milk preparations, sponges and radiant-heat lamps. He thought the onus of undertaking dispensing outside the hours covered by local arrangements should not fall entirely upon proprietor pharmacists living over their business premises.

Dispensing of Urgent Prescriptions

Answering questions, MR. WILSON said a pharmacist should be prepared to dispense a prescription marked "urgent" at any time. The responsibility for deciding what was an urgent medicine lay with the doctor. Rota services were unnecessary in districts where pharmacies normally remained open after 6 p.m. MR. STANLEY ROBINSON (secretary), discussing employee organisation, deplored any suggestion that there should be a division of members at Society branch meetings into employee and self-employed. He thought the majority of employee pharmacists worked for corporate bodies that had no status as members of the Society. If an employee organisation was required, it should be sponsored by the Society itself. After a vote of thanks to Mr. Wilson had been proposed by MR. S. T. JAMES, the secretary announced details of a refresher course of theoretical and practical work arranged by the branch.

PERSONALITIES

Mr. G. M. Baker, M.P.S., and Miss L. I. Irene, M.P.S. (the vice-president and the secretary of the Junior Section of the Blackpool Branch of the Pharmaceutical Society) were among the official guests at a ceremony in Blackpool recently at which Field-Marshal Viscount Montgomery received the freedom of the town.

Mr. W. Berry, Stirling, was presented with a cheque from the Stirlingshire Pharmaceutical Committee and local chemists, recently, at a ceremony held in his honour to mark the occasion of his relinquishing the post of clerk to the County Insurance Committee. The gift was handed over by Mr. J. T. Welsh, M.P.S., secretary of the Pharmaceutical Committee.

Mr. Kenneth Gaimster, Ph.C., has obtained his Bachelor of Science (Special) degree in chemistry at London University. He is shortly to take up an appointment as a research chemist in the medical development division of May & Baker, Ltd., Dagenham. Mr. Gaimster, who took his pharmaceutical training at the School of Pharmacy, Leicester College of Technology and Commerce, served for a number of years during the 1939-45 war in the Royal Navy.

Mr. G. S. D. Aldrich, M.P.S. (managing director of H. A. Elliott & Co., Ltd., 59 High Street, Evesham) was unanimously invited at a meeting of the Evesham town council recently to become mayor of the borough for the coming year. On the same day also he was selected as a member of the local Pharmaceutical Committee. Councillor Aldrich, who is a native of Cambridge, went to Evesham in 1909 as a junior assistant to the company of which he is now managing director. He has taken a prominent part in public affairs of the town for many years. Mr. Aldrich qualified in 1915.

BUSINESS CHANGES

Hays Pharmacy, Ltd., have acquired the pharmacy at High Street, New Romney, Kent, formerly carried on by Mr. L. A. Kirkland, Ltd.

Allen & Hanburys, Ltd., have recently opened a new surgical showroom at 34 George Street, Edinburgh, under the supervision of Mr. A. Wilson Strachan, M.P.S., the company's manager for Scotland.

The Export Licensing Branch of the Board of Trade is being transferred on September 13 to Regis House, King William Street, London, E.C.4 (Telephone: Avenue 3111).

COMPANY NEWS

Peter Claridge, Ltd. (P.C.).—Capital £100. carry on the business of pharmaceutical chemi and druggists, etc. First directors to be appoint R.O.: 161 New Bond Street, London, W.1.

Alex. Gammie, Ltd. (P.C.). — Capital £1,0 To carry on the business of wholesale and re chemists, etc. John T. Roach, John P. Roach a Esther M. Roach, directors. R.O.: Restrong Creek, Mylor Bridge, Cornwall.

Megas Chemicals, Ltd. (P.C.). — Cap £1,000. To carry on the business of chemi druggists, opticians, photographers, etc. Thor Megas and John Megas, directors. R.O.: Leinster Square, Bayswater, London, W.2.

David L. Rees (Chemists), Ltd. (P.C.).—Ca tal £2,000. To carry on the business of chemi herbalists, etc. Mrs. Jennie Rees, Miss Elizab D. Rees, Tom Davies and Leslie John, direct R.O.: 54 New Road, Skewen, Glam.

Maxex, Ltd. (P.C.).—Capital £20,000. To quire the business of research and developm engineers carried on by F. and T. A. F. Ste at 90 Upper Tulse Hill, London, S.W.2, and carry on business as manufacturers of and dea in fertilisers and horticultural preparations, etc. first directors are to be appointed. Solicito Ashurst Morris Crisp & Co., 17 Throgmor Avenue, London, E.C.2.

LEGAL REPORTS

Soap Without Ration Documents.—Darwen, Lancs, recently, John Haydo trading as John Haydock & Sons, Benr Street, Darwen, was charged with unl fully buying, pre-packing and sell liquid soap without surrendering or manding ration documents. He was fi a total of £15 15s. with costs. It was sta that defendant, a mineral water manuf turer, finding trade slack, bought drums liquid soap and broke it down into bot which he sold to shopkeepers.

Eire Pharmacy Act Fines.—At Bal glass district court on July 28, Patr Hoxey, Knockanarrigan, co. Wicklow, summoned at the instance of the Pharr ceutical Society of Ireland with breac of the Poisons and Pharmacy Acts, in th not being a qualified person, he sold ly and that he sold it in a bottle not prop labelled. He pleaded guilty to b offences. For the breach of the Pharm Act the Justice applied the Probation A and for the breach of the Poison Act imposed a fine of £1, with £3 13s. costs. In a second case, Thomas Fin Castleruddery, co. Wicklow, was su moned by the Society on similar char in respect of a sale of Rodine rat pois The Probation Act was again applied the first summons, and a fine of £1, w £3 13s. 6d. costs, imposed on the seco

TOPICAL REFLECTIONS

nts in Tenancy Law

n giving attention to problems arising n the inauguration of the National alth Service, owners of pharmacies y overlook more important though less nediate matters affecting the conduct a business. One such matter is carefully cussed in an editorial article on pp. -49. The legal position of an outgo- tenant is not easy to comprehend with- some study of recent enactments erning relation to a landlord; and even n it will be desirable, not to say neces- y, to consult a solicitor before taking steps in the situation. The advice you e given should be kept for reference if required now. A point made in the first agraph is in accordance with commer- experience: the claim by the tenant ould not be out of all proportion to at is justified by the circumstances." nants who are young and unversed in nsactions of this kind may be tempted demand far more compensation for re- quishing the premises than they expect obtain; but the temptation should be sted. A more technical point is found the second paragraph: the tenant is entitled, you explain, to the benefit any goodwill "other than that which been directly created by him." I may l attention, also, to the final caution t as a rule the notice of claim must sent to the landlord at least twelve nths before the tenancy is due to ex- e.

H.S. Prescriptions and Forms

As is indicated in the previous para- aph, National Health Service prescrip- ns are engaging keen attention by dis- nsers. It could hardly be otherwise. should like to offer a few suggestions the pricing arrangements (p. 232) and prescribers' irregularities (p. 230). It ll be noted that the instructions about cing refer to prescriptions dispensed in gust and September only. Few of your aders can, I suppose, refrain from a smile reading that what may be called the er-5s. lot is to be placed, in one bundle, the top of the less expensive lot. This aracteristic touch is, happily, unaccom- nied by any threat of sanctions for in- vertent omission to comply with the rection. Chemists are tidy people, and ere is little doubt that failures in the rrect placing of the overs and unders will be few. From the statement on the "considerable misunderstanding among doctors" issued by the Ministry of Health it appears that N.H.S. prescription forms are being incorrectly used by some prescribers. This is not surprising. A fairly general experience is that medical men will not trouble to observe systems of clerical work imposed upon them: they prefer their own—or none. While I have a real sympathy with professional people who resent the increasing duty of filling in forms, they should realise that this duty is shared, in various degrees, by most classes of the community.

Science and Sympathy

As the article on pp. 250-51 shows, Sir Kenelm Digby neither originated nor professed to have originated the powder of sympathy named after him. The fact that a different type of preparation was in use at the same period for the same purpose suggests that the idea of this vulnerary "cure" was "in the air." Strange as it may appear to us, the supporters of Digby's theory of healing believed themselves to be thinking on sound lines; and it may be observed that the Oxford English Dictionary gives the first place among its definitions of "sympathy" to the now obsolete meaning "a (real or supposed) affinity between certain things," by which, it continues, they are affected by the same influence or affect each other. Joseph Glanvill, whose name is mentioned on p. 251, once went a step further than this in his discussion on sympathetic healing. In "Sadducismus Triumphatus" (1700 edn.) he held that witchcraft can be explained by Digby's or a similar theory, namely, by the passage of particles from witch to witch's client or victim. He added: "And now 'tis past question, that *Nature* for the most part acts by subtile *Streams* and *Apporreaea's* [*sic*] of *minute Particles*, which pass from one Body to another." In the twentieth century this conclusion seems, perhaps, less absurd than it did in the nineteenth. However that may be, Glanvill was a Fellow of the Royal Society and a versatile author. After reading his considered opinion we need not wonder that his contemporary, Sir Thomas Browne, whose mind worked readily on more than one plane, was convinced of the reality of witchcraft, and testified to that effect in a court of law.

Xrayser

MARRIAGE

PORTEUS—MACCALLAUGH.—At Doncaster, on August 20, Henry Brabant Porteus, Camberley, Surrey, to Gladys Catherine Jean MacCallaugh, M.P.S., Hotel Clifton, Binnetthorpe, Doncaster.

DEATHS

BELLAMY.—Recently, Mr. Arthur Bellamy, High Holme Road, Louth, Lincs, aged eighty-one. Mr. Bellamy qualified as a chemist and druggist in 1888, and was formerly the owner of a pharmacy in Market Place, Louth (later acquired by Boots, Ltd.).

CULLEN.—Recently, Dr. William Cullen, president, 1941-43, of the Society of Chemical Industry and a former president of the Institution of Mining Engineers, aged eighty-one.

FAIRHURST.—On August 14, Mr. William Pennington Fairhurst, 103 Dicconson Street West, Wigan, Lancs, aged seventy-six. Mr. Fairhurst qualified as a chemist and druggist in 1893. He was formerly a partner in the pharmaceutical business of Winstanley & Fairhurst, 9 Market Street, Wigan, but retired about thirteen years ago. He is survived by his widow.

KIRKBY. — At Wolds, Huttoft Road, Sutton-on-Sea, Lincs, recently, Mr. Frank Kirkby, M.P.S., aged sixty-nine. Mr. Kirkby opened his business at 19 High Street, Sutton, in 1913, and subsequently took over a second business at High Street, Mablethorpe. He is survived by a widow, two daughters and a son.

LAMB. — On August 8, Mr. Reuben David Haigh Lamb, 28 Ensbury Park Road, Winton, Bournemouth, Hants, aged sixty-eight.

NUTTALL. — On July 28, Mr. Maurice William Nuttall, M.P.S., Aldersyde, Dane Bank Drive, Disley, nr. Stockport, Ches, aged seventy-four. Mr. Nuttall was in business at Disley from 1906 until his retirement in 1943.

WILLS

MR. L. H. COSTIFF, M.P.S., 12 Blumfield Crescent, Cippenham, Slough, Bucks, left £6,731 (£3,536 net).

MR. A. CHALMERS, retired pharmacist, 3 St. Philland Place, East Newport, formerly of Pierhead, Newport, Fifes, left personal estate in England and Scotland valued at £2,315.

MR. A. BOND, 9 Eliot Gardens, Newquay, Cor wall, retired pharmacist, left £25,201 (£24,7 net).

MR. H. F. STRAKER, 194 Bishopsgate, Londo E.C.2, late chairman of British & Colonial Dru gist, Ltd., left £69,178 (£67,129 net).

MR. J. TURLEY, M.P.S., 21 High Street, Bogn Regis, Sussex, superintendent of Long & Stricklan Ltd., Bognor Regis, left £2,441 (£2,395 net).

MISS C. K. LYNCH, Ph.C., the Princess Ali Memorial Hospital, Eastbourne, left £3,9 (£3,945 net).

MR. A. H. FORRESTER, M.P.S., 11 Maybu Road, Barnton, Midlothian, formerly in busin in Kirkcaldy, left £7,615.

MR. W. R. EDWARDS, M.P.S., Essendene, Pa way, Midsomer Norton, Somerset, left £20, (£20,455 net).

MR. H. L. HALSTEAD, 44 Cliffe Street, Rishto Lancs, a representative of C. A. Critchley & C Ltd., wholesale chemists, Blackburn, left £728.

MR. G. TURNER, M.P.S., 63 High Street, B gleswade, Beds, formerly of Longton, Staffs, l £25,019 (£23,916 net).

MR. E. BUCKLEY, M.P.S., 56 Castle Gr Avenue, Headingley, Leeds, left £3,894 (£3, net).

MR. S. C. MANDELSOHN, M.P.S., Greenwa Bearwood Path, Winnersh, Wokingham, Berks, l £26,510 (£26,127 net).

MR J. W. A. PRESTON-JACKSON, M.P.S., Burford Road, Bickley, Kent, left £6,871 (£6 net).

SIR NIGEL LESLIE CAMPBELL, Fordcombe Man Tunbridge Wells, Kent, and 41 Threadnee Street, London, E.C.2, a director of Glaxo La ratories, Ltd., left £92,242 (£90,374 net).

MR. F. PERKINS, M.P.S., 149 Castle Road, B ford, formerly of Southport and Harrogate, for many years manager for Boots, Ltd., Sil Street, Bedford, left £2,204 (£1,740 net).

MR. J. R. MCBAIN, M.P.S., 8 Vale Road, H wards Heath, Sussex, manager at Lewes Timothy Whites & Taylors, Ltd., left £2, (£1,413 net).

MR. F. W. DAVIES, M.P.S., 72 Woodla Grove, Coulsdon, Surrey, formerly in business Thornton Heath and Streatham High Road, L don, S.W., left £3,295 (£3,235 net).

MR. G. E. BELL, 5 Allerton Road, Southp chairman and managing director of Bell & S Ltd., veterinary chemists, Liverpool, left £71, (£68,412 net).

MR. R. BLACKIE, M.P.S., J.P., 40 Champ Hill, London, S.E.5, founder and chairman Robert Blackie, Ltd., London, left £40, (£39,859 net).

MR E. E. COOPER, 3 Woodcote Green, Walli ton, Surrey (managing director of Pad Facto Ltd., Camden Road, London, N.W.1), left £11, (£11,524 net).

MR. K. STAFFORD, The Ashes Farm, Kin Hayfield, Derbyshire, for some years prior to taking up farming a member of the representa staff of THE CHEMIST AND DRUGGIST in Manc ter, left £961 (£755 net).

CITRUS FRUIT JUICES

A Review of the Supply and Allocation Positions

HE Advisory Committee of the Citrus uit Juices Control recently made reports the industries concerned regarding im- rts of the various kinds of citrus fruit ices which will arrive under the current ar's programme. Since the deconcentra- n of the Soft Drinks Industry on Feb- ary 29, demand has greatly increased for rus juices. The supply position of cific kinds is as follows:—

LEMON.—Provision has been made in the port programme for ample supplies to et the requirements of the industry, and e quantities specified by allottees when ciding the varieties in which they would efer to receive the 140 per cent. of their 39 purchases have already been met in ll. In addition, the applications origin- y made for lemon juice under Form J/M have been for the most part allo- ted in full. These allocations will be com- eted at a relatively early date. The fur- er applications arising out of the secre- ries' letter of June 3 are now having the tention of the Advisory Committee, and is contemplated that allotments will rep- sent approximately 70 per cent. of the plications received.

ew Sources of Supply

ORANGE.—Demands for this variety have en very heavy and have been much in cess of the original import programme ure. Although every effort has been ade to increase purchases from all avail- le sources to enable the deficiency be met, it will be impossible to meet full all requirements. Quantities which ere specified by allottees in their total ure of 140 per cent. of their 1939 pur- ases will, however, be met in full, plus ny juice which is required in replacement licensed exports (see below). To offset pplies which would have been obtained om Palestine, had this been possible, the inistry of Food is in touch with new urces of supply.

GRAPEFRUIT.—The difficulties in Pales- ne have seriously interfered with the sup- ies of grapefruit juice, but the Ministry in touch with other sources of supply hich may result in some shipments being ceived in the current year and larger iantities next year. The allocations to itum period allottees will be about 40 r cent. of their applications. It is the ommittee's intention if supplies will per- it to offer orange juice in lieu of the balance of grapefruit juice which will not be forthcoming in adequate quantities.

LIME.—It has proved to be an extremely difficult year for lime juice, in that the 1947 autumn crop was short and the 1948 spring crop was disappointing. This situation has created a severe shortage of juice available for distribution to allottees during the spring and summer of the current year. It is hoped that the 1948 autumn crop will be a normal one, and should this be the case lime juice will be available in good supply during the latter months of 1948. Some juice is coming forward from the West Indies where prospects for the autumn crop are good.

Replacements of Juices Used in Exports

Provision has to be made for the replacement of juices used by manufacturers from their stocks for export purposes, and whilst lemon and orange juice should present no difficulty, grapefruit and lime juice will be short for replacement purposes. The Advisory Committee hopes, in such cases to offer lemon or orange juice to those concerned.

The Committee is anxious to recommend to the Ministry that the decontrol of the distribution of fruit juice is practicable at an early date. No decision on this important matter has, however, been possible owing to the continued shortage of juice compared with the rising demand. The Committee is actively investigating the 1949 position and the many questions which may have an affect on the supply of fruit juice.

WORKS VISIT.—Oxford chemists photographed during a visit to the works of Glaxo Laboratories, Ltd., Greenford, Middlesex, recently.

TRADE NOTES

Price Reduced.—Details of new reduced prices for Femex sanitary towels are given on another page of this issue.

Tablet Issue. — Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, announce that dextroamphetamine sulphate tablets, 5 mgm., are now available from the company in packs of 100, 500 and 1,000.

Invitation to Conference Visitors.—Pharmacists attending the British Pharmaceutical Conference, Brighton, August 30-September 4, are invited to inspect the manufacture of Bile Beans at the works of C. E. Fulford Manufacturing Co., Amelia Road, Worthing.

In Free Supply.—J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1, invite inquiries and orders for Tangee lipstick, which is now freely available. Press advertising is in progress for a new lipstick shade: "red-red." Prices are given on another page.

Heavily Advertised.—William R. Warner & Co., Ltd., Power Road, London, W.4, sole distributors for Dr. Earl S. Sloan, Ltd., reproduce in this issue one of the advertisements for Sloan's liniment which, they state, will appear in 235 million copies of various publications during the coming winter.

Again Available. — D. & W. Gibbs, Ltd., 1 Kingscote Road, London, E.C.4, announce in this issue that Spraygloss hair-beautifying preparation is again available to chemists on generous trade terms. The speciality is available in two varieties: No. 1 for normal or dry hair and No. 2 for naturally oily hair.

Agents Appointed.—John Knox (Stoke-on-Trent), Ltd., King Street, Fenton, Stoke-on-Trent, have been appointed sole distributing agents for Peat Products (Sphagnol), Ltd., 3 Carmalt Gardens, Putney, London, S.W.15. Messrs. Knox carry full representative stocks of all Sphagnol products and give a weekly service throughout the Midlands.

Imported Proprietaries. — Coates & Cooper, Ltd., 21 Eastbury Road, Northwood, Middlesex, announce that they have received a token shipment of the following products of Reed & Carnrick, Jersey City, 6, N.J., U.S.A.: Pancrobilin pills, compound (100's), Testacoids (100's), Ovacoids (100's), Nephritin tablets (80's) and Gomenoleo 10 per cent. in bottles containing 50 c.c. Moderate orders can be met.

Vitamin Malt Extracts.—In this issu Jeffreys, Miller & Co., Ltd., 19 Brool side Road, London, N.19, direct attentio to their butterscotch-flavoured Millama malt extract with added natural vitamin —Kings of Kingsbury (Sales), Ltd., London Bridge, London, S.E.1, invite ch mists to sell the company's vitamin ma extract and malted wheaten food und their "own name." Interested retailers a invited to write or telephone for details.

Change of Pack. — Genatosan, Lt Loughborough, Leics, notify a change the packing of Cogene antipyretic and ana gesic tablets. The tablets are now issu in pairs in transparent tissue envelop bearing the formula and dose, and t envelopes are included in cartons holdi ten and twenty tablets. The make point out that, from the chemist's poi of view, breakages are obviated. A fe copies are available of a new showcard f the preparation.

Penicillin Chewing-gum. — Allen Hanburys, Ltd., Bethnal Green, Londo E.2, claim for their newly-introduced pe cillin chewing-gum, A. & H., that it p mits an advance in the treatment of o infections due to streptococci and Vincen organisms. The gum has a penicillin co tent of 5,000 units per piece, making p sible an effective concentration of pe cillin in the saliva during a period of th or four hours. The product is available boxes of six pieces.

Permanent "Starching."—The Brit Permanent Starch Co., Ltd., 87 Reg Street, London, W.1, are distributing, through a number of drug trade wholesalers, a new product, D.I.P. permanent plastic "starch." The preparation, which is issued in cylindrical bottles under an attractive two-colour label, imparts a "starching" that is claimed to last for well over fifteen washes, to render delicate fabrics more resistant to shrinkage and creasing, to improve the fastness of the colours, and to prolong the life of the fabric. D.I.P. contains no starch. It is und stood to be the outcome of laboratory te carried out by the British Launderers' I search Association and Manchester Cha ber of Commerce testing-house. A consid able advertising programme is under w

Distribution in Pakistan. — A. G. azul Ellahie & Co., have opened a branch Station Road, Chittagong, Pakistan, to al with the distribution of proprietary edicines, drugs and chemicals in East ngal. The branch is open to take up w agencies.—Dr. A. Waheed, a director Ferozsons, publishers, Lahore, Peshawar d Karachi, is visiting Great Britain, and sires to contact manufacturers interested securing distribution of their products Western Pakistan. Messrs. Ferozsons te that they are the largest holders of licence from the local government for the anufacture of spirituous preparations.

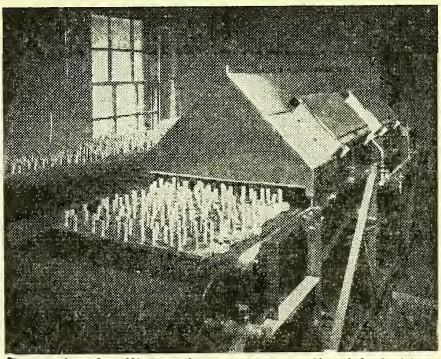
"Conductive" Rubber. — The British ubber Development Board, Market Buildgs, Mark Lane, London, E.C.3, draw tention to a new and specially comunded rubber as a heat-providing eleent. Special advantages are claimed for e material in the manufacture of conctive panels as a means of heating kwardly shaped objects such as laboary flasks, glass connecting-rods, etc. The nels also permit strict heat control in pliances such as incubators, where a ady heat is essential. Larger sheets of nductive rubber enable cold corners of orkshops, etc., to be heated, while ceiling nels may be backed with aluminium foil prevent the upward loss of heat.

Photographic Marketing Change. — urroughs Wellcome & Co., London, W.1, announce that from September 1 hnson & Sons, Manufacturing Chemists, d., Hendon, London, N.W.1, will act sole distributors of Tabloid photographic oducts. The products will continue to manufactured by Burroughs Wellcome Co., and their formulas will be unaltered. essrs. Johnson are also taking over the le publication and selling rights in the ellcome photographic year-book (comencing with the 1949 edition) which will come known as the Johnson Wellcome otographic year-book. From the date ven, therefore, all orders for and inquiries out Tabloid photographic products and e photographic year-book should be dressed to Messrs. Johnson.

Two New Products. — Glaxo Laboories, Ltd., Greenford, Middlesex, anounce the introduction of two new proucts. Anethaine lozenges are specially preared for anæsthetising the throat and rynx prior to instrumentation; each zenge contains 25 mgm. of amethocaine ydrochloride, and the product is available tubes of 50. Ampoules of water-soluble apilon vitamin K analogue contain 10 mgm. of menaphthone carboxymethoxime in each 1-c.c. ampoule. The aqueous solution is claimed to be less likely to produce pain or irritation on injection than menaphthone, which is soluble only in oil. The original oil-soluble Kapilon ampoules remain available until further notice, but the water-soluble preparation will be issued where orders do not specify which type is needed. The new product is presented in boxes of six 1-c.c. ampoules.

Photoelectric Colorimeter. — For chemical colorimetric analyses that do not require the high accuracy obtainable with a standard two-photocell absorptiometer, Hilger & Watts, Ltd. (Hilger division), 98 St. Pancras Way, London, N.W.1, have designed an instrument in which the light (from a source run at a constant voltage) passes through the liquid under study and reaches a photoelectric cell which is in turn connected with a large open-scale meter. The amount of light reaching the photocell is indicated on the meter in terms of the electrical output of the photocell. The system has the advantage that readings can be taken very quickly; for example, the Carr-Price reaction with antimony trichloride (for the determination of vitamin A) can be taken within a few seconds of initiating the reaction. The instrument can be used with test tubes or with flat ended cells, and the meter is calibrated to read directly in percentage transmissions or in densities.

INFRA-RED HEATING BY GAS



Shown in the illustration above are lipstick holders on conveyor belt emerging from infra-red heat-drying tunnel. Other processes in which infra-red heating is being used in pharmacy include the drying of granules in a tunnel unit, using panel temperatures between 500° and 650° F. (The granules are spread out on a tray in a layer one inch thick and reduced from, say, 2 lb. moist weight to 1 lb. 12 oz. dry weight in forty minutes); and of pill centres (centres approximately 6 mm. in diameter, which previously took three days to dry in a heated room, are dried and hardened successfully in twenty minutes).

NEW BOOKS

National Insurance and Social Insurance for Everyman.—Edmund R. Gibbs, A.L.A.A., A.S.C. $7\frac{1}{4}$ in. x $4\frac{3}{4}$ in. Pp. 70. 3s. 6d. Pen-in-Hand Publishing Co., Ltd., St. Michaels Street, Oxford. A guide, in simple language, to the provisions of the National Insurance Act, 1946, the National Insurance (Industrial Injuries) Act, 1946, and the National Health Service Act, 1946.

Aromathérapie Dermatologique. — $9\frac{3}{8}$ in. x $6\frac{1}{8}$ in. Pp. 75. frs. 150. "La Parfumerie Moderne," 15 Rue Constant, Lyons, France. In this semi-technical, semi-popular symposium (*Fascicule Spécialisé No.* 5), R.-M. Gattefossé returns to a subject he has made peculiarly his own with a monograph on healthy and unhealthy odours. Contributions by other writers deal with associated themes, such as the action of aromatics on the skin, popular skin treatments in Provence, aromatic vapour baths and the like, the whole constituting a series of essays of appeal to technologists whose interest in the subject goes beyond its strictly practical and utilitarian aspects.

Pharmacology (Third Edition).—J. H. Gaddum. $8\frac{3}{4}$ in. x $5\frac{1}{4}$ in. Pp. 504. 25s. Geoffrey Cumberlege. Oxford University Press, Amen House, Warwick Square, London, E.C.4. In the third edition of this work since 1940, the author (formerly of the Pharmaceutical Society's College, London) has brought the book up-to-date to the beginning of 1947. Among the subjects dealt with in the additions and alterations are the action of drugs on endocrine glands, folic acid, spasmolytics, diuretics, BAL and antibiotics. Three pages are devoted to insecticides and weed killers—problems related to the main subject. The work is fully indexed, references being made to a number of proprietary preparations. A key to the interpretation of chemical names is included. There are some seventy-five illustrations.

Dispensing for Pharmaceutical Students (Ninth Edition). — J. W. Cooper, Ph.C., and C. Gunn, B.Pharm., Ph.C. $7\frac{1}{4}$ in. x 5 in. Pp. 599. 16s. Sir Isaac Pitman & Sons, Ltd., Parker Street, London, W.C.2. This well-known text-book, the former editions of which were written jointly by Mr. J. W. Cooper and Dr. F. J. Dyer, has been brought up-to-date to the seventh addendum of the British Pharmacopœia, 1932, and later Gazette notices, by Mr. C. Gunn, head of the School of Pharmacy, Leicester College of Technology and Commerce. The new sections, which inclu paragraphs on penicillin preparations, a a chapter on compressed tablets, foll closely the style of the older parts of t book. For example, theoretical consider tion of the subjects is followed by su gested practical exercises. A foreword h been written by Dr. Dyer.

British Catalogue of Plastics.—11 in. 8 in. Pp. 800. 60s. National Trade Pre Ltd., Tower House, Southampton Stre Strand, London, W.C.2. The subtitle "A Encyclopædia of Plastics" gives the clue the comprehensiveness of this admirab produced volume, indispensable not or to those engaged in the manufacture plastic materials, machinery or fabricat articles, but equally to users of packag or of devices for the display of goods. T titles "Plastics for Packaging and Display "Plastics in the Chemical and Allied I dustries" and "Plastics for Doctors a Dentists" are examples of many subje treated in the new edition, which inclu no less than fifty-seven new sections. T glossary of terms, classified directory a diagram illustrating the organisation of t industry are sufficient in themselves to e sure that the volume is in continual u as a work of reference.

British Hospitals.—A. G. L. Ives. $8\frac{3}{4}$ x $6\frac{3}{4}$ in. Pp. 50. 5s. William Collins, Sons Co., Ltd., 14 St. James's Place, Lond W.1. Like the other works in Mess Collins' "Britain in Pictures" series, t handsomely produced booklet (for it is much more) treats the subject from its lation to the general social development the country. Taking as its starting-point "Christian Piety: The Mediæval Scen the work picks out for treatment in s cessive chapters the Royal Hospitals ("a the dawn of scientific medicine"), voluntary hospitals of the eighteenth c tury, the "Nightingale era," and the i pact of science on the hospitals, conclud with the "assumption of responsibility the State." Necessarily sketchy, the res is a thoroughly readable narrative t should tempt the purchaser to contin with the more exhaustive volumes listed a short bibliography with which the b concludes. Provided that his outside re ing is sufficiently wide, the reader will in their proper perspective a few mi inaccuracies such as a reference to " already famous discovery of penicillin Sir Almroth Wright and Sir Alexan Fleming"

ALLOWABLE EXPENSES OF DIRECTORS

e Chancellor of the Exchequer stated his April budget speech that sums paid directors in respect of expenses should, n April 6, be included with their ries and made subject to the provisions erning Pay-As-You-Earn. Thus, if a ctor receives £1,000 a year plus £400 enses, his P.A.Y.E. is calculated on a l of £1,400. A director could, howr, submit a claim under Rule 9 of the s applying to Schedule E income tax, such a claim would be dealt with acding to income tax practice.

ailed Records Desirable

he Chancellor's statement means that irector who can prove that he has inred expenses wholly, exclusively and essarily for the purposes of his employnt is allowed them as a deduction from tax. In submitting his claim, the direcshould give as much detail as possible , if practicable, submit a detailed diary engagements. Alternatively a director , like any member of the staff, give ailed petty cash slips to the petty nier, and it is possible that such exses may not need to be subject to the -As-You-Earn deductions.

n general, expenses that can be claimed under the following headings:—

RAVELLING EXPENSES. — A log book uld be kept by car-users showing the eage done, journeys undertaken, and exses. With a proper log book, the protion the "business" mileage bears the total mileage can be claimed. director who has not a private car may ur travelling expenses by bus, taxi, in, etc.; full details of the journeys uld be kept, as well as of any other velling expenses, such as hotel bills, tips, ters, etc. The Inland Revenue authori- sometimes contend that a proportion the hotel bills should be disallowed in pect of meals, because the claimant uld have to have such meals in any nt, but he should not submit to the dispwance of any additional expenses that would not have incurred if he had not dertaken the journey.

NTERTAINMENT OF CLIENTS.—An item t may give rise to considerable diffity is entertaining expenses, but it is dent that, with the rapid return of the er's market, entertaining will probably in have to be undertaken on a pre-war le. Many directors may be forced to entertain at home, and put to much additional expense in supplying refreshments to their visitors, or even, perhaps, compelled to engage extra domestic assistance. All additional expenditure incurred through entertaining should be claimed.

TECHNICAL LITERATURE.—Directors also spend money on incidental items on behalf of their businesses (for example, trade periodicals and books of a technical nature). They are entitled either to claim such expenses direct from their businesses, or alternatively to include them in claims they submit to the Inland Revenue. It is often said that the cost of forming a library is not an allowable expense. That is true, but many books purchased by technical men are read merely for their current information and seldom used afterwards as reference books. If they are permanent reference books, the expense is, of course, not allowable.

GIFTS.—Directors may also include gifts they must make for the purpose of maintaining their status, and the cost of attending trade and social functions connected with the business, as well as social events given by other members of the trade.

As detailed a record as possible should be kept of all such expenses, and the director should either draw them from the company, or, alternatively, submit a claim to the Inland Revenue. If any of the items is disallowed, it may be advisable to contest the decision by a personal appearance before the Commissioners.—*J. L.*

First-hand Knowledge.—"I shall never forget the agonised howl of the student who chewed a mouthful of quassia chips. I wonder if he has ever since then brought himself to prescribe it. Our hospital made a brave effort to interest us in practical pharmacy, but unfortunately it was always on a Saturday morning when many of us had more than half our minds on the afternoon's rugger or hockey, even if we weren't absent at an away match. It is fortunate that my present income does not depend on my knowledge of the pharmacopœial flavourings. I've always been a little chary of trying the habit-forming drugs, but I certainly enjoyed my morphine when I had my appendix out—though it didn't altogether relieve my apprehension when I found that I was too dopey to 'prep' myself and had to surrender to a fellow student."—A peripatetic correspondent in the "Lancet."

MEDICAL ABSTRACTS

Influenza Vaccine Failures. — Ravenswaay, Sigel and others ("Journal of the American Medical Association," February 14. pp. 435, 441) report that in the 45 per cent. of 527 cadets at a military preparatory school who were vaccinated against influenza A fifty-eight days before an outbreak of influenza, the reduction in the incidence in the immunised group was insufficiently great compared with the non-immunised group to justify vaccination. Examination of the serum of the immunised cadets showed that the vaccine was potent, but it became known later that the strain of influenza prevalent during the epidemic differed antigenically from the strains contained in the vaccine used. A similar report is made by Sigel and others on the vaccination against influenza A and B of 88 per cent. of the students at a boys' school, 278 of whom came under observation. The authors recommend improvements in influenza vaccine, including the preparation of more concentrated vaccines (free from undesirable side effects) and the use of adjuvants or other forms of presentation to increase the antibody levels and persistence (such as vaccines emulsified in liquid paraffin).

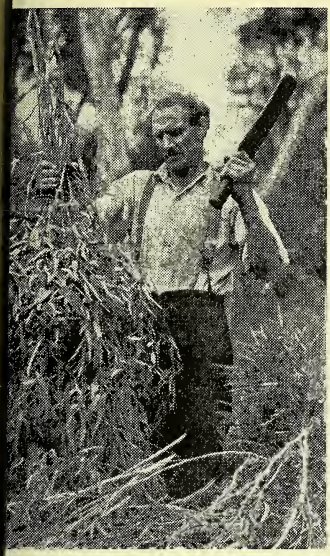
Death Cap Poisoning.—The treatment of poisoning caused by *Amanita phalloides* (death cap) in two German prisoners of war is described by Lewes ("British Medical Journal," August 21, p. 383). Each prisoner had eaten a small quantity (estimated at one or possibly two specimens) of the poisonous fungi in a dish of mixed fungi that had been boiled for three-quarters of an hour before being fried. During the cooking process the fungi were found not to blacken a silver coin and were therefore adjudged safe. [An article on the identification of poisonous fungi published in *C. & D.*, 1947.II.57 pointed out that the silver test is worthless as a means of determining whether a fungus is harmless.] The patients complained of no ill-effects until nine and twelve hours, respectively, after the meal. Initial symptoms then were severe vomiting follow shortly by griping pain in the upper abd men and diarrhœa. Antiphallinic serum w not available, but gastric and high colon lavage with 1 per cent. saline was pe formed for three days, and 2 fl. oz. of per cent. magnesium sulphate left in t stomach. Vomiting and diarrhœa dim nished immediately and ceased after six nine hours and thirty-eight hours, resp tively. Intravenous 5 per cent. glucose saline (replaced later by glucose drinks a citrated milk) was given for four days wi soluble insulin and vitamin K in an atten to prevent or minimise liver damage. Bo patients developed symptoms of jaund after cessation of diarrhœa and vomiti The patient whose first silent period w the longer, and who suffered the less sev and prolonged diarrhœa and vomiting, s tained more liver damage than the oth but both recovered. The author conclu that the ability of the gastro-intesti tract to eliminate the toxin of *Aman phalloides,* and the thoroughness w which such elimination is assisted by ea gastric and colonic lavage, are importa factors in determining recovery.

Amanita phalloides (the death cap) showing loose cup-shaped type of volva.

Pertussis-diphtheria Immunisation. Observations that were made upon ma thousand children in Norfolk, U.S.A., d ing 1941-45 by Bell and colleagues ("Jo nal of the American Medical Associatio July 17, p. 1009), indicated considera advantages in using a combined pertus vaccine and diphtheria toxoid over an u mixed toxoid when immunising agai diphtheria. The combined preparati used was prepared by mixing two parts a diphtheria toxoid with one part of a s pension containing 30 thousand milli phase 1 *H. pertussis* organisms per c which had been killed with 1 : 10,000 so tion of Merthiolate. The mixture was p cipitated by adding 4 per cent. alum so tion, and the precipitate was wash passed through a colloid machine, and su jected to sterility and safety tests. unmixed toxoid was prepared similarly cept that saline was substituted for killed *H. pertussis* suspension. Child who received two doses of the unmix toxoid had three times as many failures immunise against diphtheria as child who received two doses of the toxoid a pertussis vaccine mixture. The mixed p duct was effective for diphtheria immu sation when given to infants in the two five years age-group.

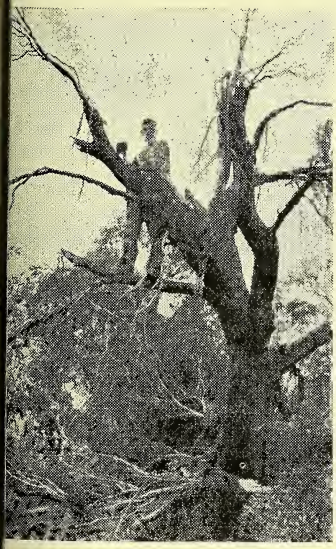
UCALYPTUS OIL PRODUCTION IN AUSTRALIA

ANNUALLY about 70,000 gall. of eucalyptus oil, valued at £130,000, is exported from Australia, the world's principal source of supply since 1854, when the first refinery was set up in Victoria. At the production centre at Nowra, New South Wales, of Mr. Hugh Edwards, one of the few Australians in the eucalyptus-distilling industry (it is mainly in the hands of foreigners, especially Jugo-Slavs), are stills of 1,600-gall. and 1,200 gall. capacity.

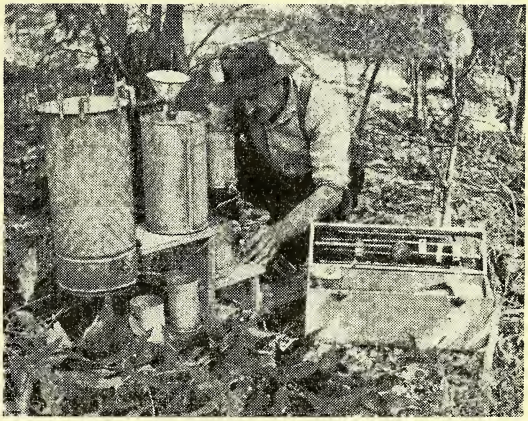


Leaves and suckers are stripped om their stems in preparation or the distillation process.

2. The leaves are packed into digesters, each holding a ton. To save time, steam begins to be fed into the digesters as soon as the packing starts. Oil flows immediately.



3. The young suckers are lopped rom the tree. Three years elapse before the tree is again visited.



4. To assess the oil content of leaves in a given area a portable 4-gall. still is used. It is carried on the running board of a car.

ALCOHOL IN SPIRIT-WATER MIXTURES

By R. A. Carreyett

A PROPOSED rapid method for the determination of the percentage of alcohol in aqueous alcohol mixtures requires as apparatus only a 1-c.c. pipette, graduated in 0.10-c.c. divisions.

PROCEDURE: After first rinsing out thoroughly the 1.00-c.c. pipette with the liquid to be examined, withdraw 1.00 c.c., and by slowly releasing the pressure with the finger over the top of the pipette, count the number of drops given from 1.00 c.c. The number delivered is constant for each strength of alcohol varying from 0.00 to 100 per cent. v/v.

Graph or Table

The pipette is previously standardised against a range of alcohol strengths, and either a graph constructed from the number of drops delivered from 1.00 c.c. of each alcohol strength, or else the results are arranged in a tabular form, as shown below:—

Percentage v/v Alcohol	Number of drops from 1.00 c.c.	Percentage v/v Alcohol	Number of drops from 1.00 c.c.
100	52	45	46
90	51	30	40
80	50	20	35
70	49	10	29
60	48	water	22
50	47		

The figures in the determinations are the mean of five estimations upon each percentage noted, and these all agreed well to ± 1 drop for 1.00 c.c. Three such determinations occupy approximately the same number of minutes and give a reasonable and fair average figure upon which to base the determination.

It is important to realise that the size, and consequently the number, of the drops is independent of the force applied to the liquid to drive it out of the tube. This may be shown by forcing the water out of the tube by means of pressure gently applied to a rubber bag, such as a teat attached to droppers. The number of drops per c.c. is the same whether the water is forced out of the tube by pressure applied to the rubber bag, or allowed to fall under the influence of gravitation alone. The number of drops delivered by the tube from a definite volume of fluid is independent also of the time taken for the drops to fall provided the drops are given time enough to form. (E. C. Grey "Practical Chemistry by Micro-Methods," 1925.48).

In alcohol-water mixtures (or others, such as methyl alcohol, acetone, acetic acid, acetic anhydride, ether, etc.) a parallelism may be summarised as follows:—

(a) As the concentration of alcohol in the mixture increases so do the number of drops per c.c.; and conversely.

(b) As the concentration of water in the mixture increases the number of drops per c.c. decreases. This is due to alterations in value of the surface tension and in the specific gravities. Numerically, the weight of 1.0 c.c. of any liquid, compared to the weight of the same volume of water, is the specific gravity of that liquid.

If the number of drops formed from 1.0 c.c. of a liquid, and its s.g., are known, it is easy to calculate the weight of one drop:

Thus, 1.0 c.c. of water gave 22 drops.

$$\therefore \frac{1.0}{22} \equiv \text{wt. in mgm. of one drop}$$

$$= 45.4 \text{ mgm.}$$

From this the surface tension can be easily calculated:

Surface tension (T) (w) = weight of one drop.

$$\text{Then } T = w/3.8$$

$$= \frac{45.4}{3.8} = 11.9$$

This agrees closely with experimental findings:

Wt. of 1.0 c.c. water: 0.9938 gm.
No. of drops=22.

$$\text{One drop} = \frac{0.9938}{3.8} = 45.17$$

$$\text{and } T = \frac{45.17}{3.8} = 11.8$$

Specific Gravity of Solvents

Finally it is interesting to note that the number of drops delivered from 1.00 c.c. of a liquid × the wt. in mgm. of one drop = s.g., as illustrated in the table below:

Substance	[A] No. of drops per c.c.	[B] Wt. in mgm. of 1 drop	Product of [A] × [B] (*i.e.* s.g.)	Statistical s.g.
Alcohol	55·2	14·4	7948	794·8
Propyl alcohol ..	57·0	14·16	8071	8060
Butyl alcohol ..	53·0	15·30	8100	8100
Acetic anhydride	42·0	25·7	10794	10800
Acetic acid. glac.	57·0	18·5	10545	10580
Methyl alcohol ..	51·0	15·9	8109	8100
Ether	52·66	13·7	7214	7200
Chloroform ..	86·33	172·0	1484	1483
Acetone	46·66	17·1	797	795
Petrol. ether 40/60	53·50	12·52	6698	6700
Benzene	46·00	19·15	880	880
Water	22·00	45·17	9938	10000

PHARMACY IS NOT A GUILD

By Adest

WHEN the constitution of the Pharmaceutical Society is being discussed, we sometimes hear or ad an expression of a wish to return to e mediæval guild system or something ke it. The argument may be summarised us: "Members of the guilds of the iddle Age trained their apprentices oroughly, and looked after their welfare; ey were loyal to their trade, they were ous, they were charitable. Back, then, to e guild system, and let pharmacy manage s own affairs."

This argument seems plausible till we ok into it. Let us first consider apprenceship to a member of a guild. The sual term was seven years, though in 1269 e loriners of London agreed not to take y apprenticeship for less than ten years. asters often took apprentices without gistering them; and when the youths had mpleted their terms, masters sometimes glected to present them for the freedom of e craft. "Under the same system," writes . Unwin in the "The Gilds and Comanies of London," "the apprentice on mpleting his term seems often to have een in debt to his master." A fee was ayable on admission to the freedom, a rivilege that might be delayed after pprenticeship, the youth meanwhile acceptng work as a "journeyman" (the old name r an assistant). The policy of enforcing is admission fee was on one occasion rankly explained as helping to prevent an ndue increase of master craftsmen or raders. Some apprentices failed to qualify r mastership, and remained journeymen ill they either died, removed to a district here regulations were less rigid, or found ork in another occupation.

Exclusive Claims

We need not consider in detail here the ifferences between craft guilds and guilds erchant; it will suffice to mention that as esources grew, craftsmen tended to become apitalists and either to turn craft guilds nto guilds merchant or to transfer their embership from one type to the other. London was exceptional in possessing, so ar as records reveal, no guild merchant.) ssociation of craftsmen or traders was in arliest times voluntary: compulsion came ater. A licence or a charter, obtainable rom any authority—not necessarily from he king—was essential to recognition; in 1179-80 eighteen guilds were fined for not possessing licences. Once established, these associations of traders became restrictive in their practices and exclusive in their claims. The history of the Guild of Fishmongers is typical in this respect. In 1363, for instance, the hallmoot of the Guild was confirmed by a charter which conferred considerable authority. "It presented," Unwin states, "an almost exact parallel to the private jurisdiction in the hands of lords temporal and spiritual." Members of the Guild were alleged to have raised selling prices unduly: the powers of the body were sometimes curtailed and at other times restored, according to the influences prevailing. Other guilds had similar powers in London and elsewhere.

Relations with Civic Authorities

By the middle of the fourteenth century, guilds came to realise that their interests could be mutually antagonistic. They quarrelled among themselves or split into factions. Before the century closed, most of the greater guilds held charters. They tended increasingly to cross the border separating trade interests from those of the whole community. Side by side with this development, municipalities were slowly evolving into more coherent systems of local government. It is not surprising that the policies of the guilds sometimes clashed with those of the civic authorities. In fighting exclusively for their own trades, the guilds were a disruptive force; by combining their resources they might have brought municipal administration to a standstill. As it was, the exercise of separate powers of jurisdiction rendered them formidable opponents in several towns. About the beginning of the fifteenth century a new concept began to take shape. From various existing elements the livery companies of London were created. They set up courts in which trade disputes were settled and fines or even imprisonment inflicted. The day of the guild was ending. Its family basis, as W. Cunningham points out in "The Growth of English Industry and Commerce," was cumbrous and unsuited to expanding commerce. The most significant change, however, was that though charters were obtained from the king for the livery companies, the authority of the mayor and corporation was recognised by them. Unlike the guilds, the companies functioned in alliance with the civic bodies.

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OL. CL AUGUST 28, 1948 No. 3575

Revision of a Constitution

AT Brighton next week, eighty years after he August in which the Pharmaceutical ociety of Great Britain set up a Register of hemists and Druggists under the second harmacy Act, branch representatives are to iscuss proposals for revising the Society's onstitution. In 1868 the British Pharmaeutical Conference organised a testimonial o the president of the Society, Mr. G. W. andford, in recognition of his share in haping the Pharmacy Bill; that the work vas done well is shown by the fact that ome sections of the Act are still on the tatute book. As the latest Council memorandum points out (*C. & D.*, August 14, pp. 208-09), the constitution of the Society s found partly in legislative enactments, partly in by-laws, and partly in its Charter. The proposals now put forward have been correspondingly divided into classes A, B, and C, the first relating to legislation, the second to by-laws, and the third to an amending charter.

We referred to a former series of Council proposals of this type in our issue of April 26, 1947. (Those proposals had been printed on pp. 437-438 of the previous issue). On that occasion we cited Part II of the Society's Committee of Inquiry published in the *C. & D.* of December 13, 1941. It is regrettable that two matters dealt with in that report, limitation of the number of pharmacies and statutory recognition of unqualified assistants, find no place in the present proposals. It may be that the case against attempting to curtail the opening of new pharmacies is unanswerable; but the subject should, we suggest, have been mentioned. A different consideration arises regarding the position of unqualified assistants. In view of the additional demand on pharmaceutical skill and service caused by the coming into operation of the National Health Service, the time appears to be ripe for recognising and delimiting the functions of unqualified assistants in shops and in hospital dispensaries or elsewhere. We are aware that the matter is introduced, in somewhat timid sentences, near the end of the Council's other statement (i.e., on pharmaceutical aspects of the National Health Service) issued for discussion by branch representatives at Brighton; but that is not the most suitable place for it; it should have been applied to every kind of work in wholesale and retail trade. Great will be the consternation if, some day, the Council of the Society suddenly discovers that the initiative in this question has been taken from it. A third matter in the report of 1941, territorial representation, is not specifically mentioned in the present proposals, but is presumably included in the contents of paragraph 10, where the intention to seek parliamentary sanction for freedom to regulate certain internal affairs by by-laws is declared. As every member of the Council is—or should be—aware, no Parliament is likely to give a blank cheque in this respect: it will therefore be necessary for the promoters of a Bill to specify what powers are desired.

The proposal that the Privy Council should be authorised to appoint three additional pharmacists as members of the Society's Council, under the double limitation that the Society's Council (a) must first be consulted and (b) shall decide how many, if any, of the three places are to be filled at any one time seems an unwise innovation, even if it has the assent of the Privy Council. Members of the Society are, we believe, willing that additional pharmacists should be nominated to its Council, and are ready to believe that this course would strengthen the Council. But to entrust the power of nomination to a Government department already sending three nominees to the Council appears to narrow the right of selection without any compensating advantage. It would surely

be better that, as in the cases of the General Medical Council and the Dental Board, the selecting authorities should be as varied as is consistent with the nature and duties of the council to which the nominees are appointed. With one other criticism, that the final paragraph of these proposals is superflous, we commend them to the careful consideration of the branch representatives. The article "Pharmacy is not a Guild" on p. 275 indicates that material harm may be done by indulging in vague conceptions of what pharmacy is. Scrutiny of a revision intended to last for a long time cannot be too thorough.

Trade Mark Precautions

From time to time a crop of legal actions or warnings of actions over trade mark infringements focuses attention on a subject that has many pitfalls for the unwary, not to speak of possibilities of exploitation of the uninitiated. A few hints may be of value to retailers who have neither the time nor the opportunity to go very deeply into the subject.

A name may be adopted for a product made to a "pet" formula without thought that the goods may come to enjoy more than a local popularity. Before long the user of the trade mark may have it brought to his notice, to his consternation, that he is not entitled to use it—somebody else has already registered the name or a name very similar to it. Though an innocent infringer, he may find himself faced with an action and be mulcted in damages. Alternatively, if he coins a good name, someone may "lift" and register it, thus depriving him of the rewards of his enterprise. True, he may be required merely to destroy his packing material, labels, advertising matter, etc., after giving an undertaking to cease using the offending trade mark, but even so he will have lost whatever local goodwill he has built up, and will have to try and build up a fresh reputation under another trade mark.

Before marketing a product under a brand name, therefore, the vendor should adopt the following suggestions:—

1. Make full inquiries whether a similar mark is already in use in respect of goods of the same or a similar kind.

2. Have a search made at the Tra Marks Registry to ensure that the ma or a closely similar mark, has not alrea been registered in the appropriate class registration applied for in respect of t same or similar goods.

3. If a resembling mark is found, avo using the suggested trade mark until obje tions that could be raised by the propriet of the already registered trade mark a disposed of. (It may be that the reg tered trade mark is no longer in use is not in use in respect of the goods which the new user wishes to attach it.)

4. If the Trades Mark Register is re sonably free of names likely to be confus with the intended trade mark, then application for registration should made. Provided the mark complies wi the requirements of the Trade Mar Registry, it will eventually be advertis in the "Trade Marks Journal." It is th open to opposition for a period of o month from the date of the advertiseme If no objection is raised the mark th proceeds to registration on payment of t registration fee.

5. It sometimes assists an applicant obtain registration, particularly in respe of a trade mark that has an element descriptiveness in it, or that for some re son does not completely satisfy the requir ments laid down for a registrable tra mark, to make use of the mark befo registration. This should not be done, ho ever, without first of all acting in accor ance with suggestions 1, 2 and 3.

An Animal Vaccine Service

One of the world's most important ba teriological research stations for the pr tection of cattle, the State-owned Onders poort Institution, South Africa, is celebra ing this year its fortieth birthday. T institution, which readily answers appe for aid from whatever country they com sells its products at cost without profit.

It is mainly some twenty notifiab diseases of stock which keep staffs at t vaccine laboratories busy—busier now th they should be, for at present the labor tories are understaffed. The laborator are equipped for investigating vir diseases by modern methods includi

-filtration, ultra-centrifugation and ron microscopy, but several lines of in-gation (for example, into heart-water blue-tongue) have had to be suspended, ite good prospects of finding methods nmunisation, because of staff shortage. nderstepoort's gall-sickness vaccine out as far as Britain, Switzerland and ralia. To Britain, too, and to India, gary and Java, have gone the strains in anthrax vaccine. Officers of the on sent to Egypt in 1944, and using arge output of vaccine, coped with a ace to Allied military transport caused housands of deaths from horse-sickness. ther vaccine produced by the institution, particularly large quantities, is against erpest. An increasing amount of re-ch faces the staff at the station, parti-rly in parasitology, to clear up the tick the blowfly problems, for example, and ng other fields, in pharmacology and cology.

Shortage of Assistants

HOPMAN" (see *C. & D.*, August 14. 222) refers to the current shortage rained female staff in retail pharmacy. shortage is part of a general change social conditions and is one of which prietor pharmacists will have to take easing notice. Generally a girl who ted work at the age of sixteen had dergone by the time she reached eigh-n a fairly extensive training. From eigh-n until such time as she left she could regarded as a trained assistant and given ne executive responsibility. The position v is very different, and the reservoir of ng single women from which to recruit istants appears to be smaller than many ployers recognise.

A P.E.P. (Political & Economic Plan-g) broadsheet (No. 285, "Employment Women") gives the number of girls nprising the age-group sixteen and enteen who entered insurable employ-nt in 1946-47 as 46,454 against 57,159 1937-38. Expressed as a percentage of total the number entering the distribu-e trades fell from thirty-one in the pre-r year to nineteen in 1946-47. Although proportion of girls entering the distri-tive trades is still large it is clear at nowadays a greater number transfer to other employments before they reach the age of eighteen. If the position for retail trade generally applies to pharmacy, as our correspondent indicates, then employers and senior staffs will have little inducement to train their young assistants.

So far as the strictly pharmaceutical side of shop work is concerned, there is at present available a "supply" of doctors' ex-dispensers, with or without the Apothecaries' Hall qualification. To these the Ministry of Labour has recently drawn the attention of pharmacists (see *C. & D.*, August 7, p. 184). For the rest, the alternatives seem to be for a proprietor pharmacist to reconcile himself to a more frequent change of very junior assistants, or to offer some encouragment to girls to "improve" themselves to an extent beyond that contemplated in pre-war days—in other words, to qualify. In this connection, we have noted in certain North London pharmacies posters offering "Convenient, light, interesting occupation; progressive salary; and holidays with pay" and adding "Every facility given for eventually qualifying as a chemist."

FIFTY YEARS AGO

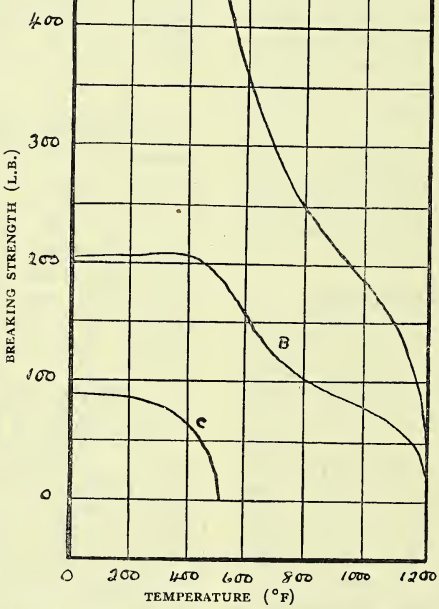
Unqualified Dispensers in Institutions

(*From the C. & D., August* 20, 1898)

AT a meeting of the directors of Arbroath Infirmary, which was held on August 15, a long discussion took place with reference to alleged irregularities in the system of the dispensing of medicines at that institution. Attention was first called to the matter at a recent meeting of the Forfarshire Chemists' Association, when it was stated that the lady superintendent, by whom the medicines were dispensed, was unqualified. At the directors' meeting a letter was read from Mr. J. Jack, pharmaceutical chemist, pointing out the responsibility which the directors incurred in not having the dispensing done by a properly qualified person. Under the terms of the Pharmacy Act, persons not duly qualified are debarred from selling (which means distributing) poisons, and the chemists practising in Arbroath are of opinion that, in the public interest, the present arrangements for the dispensing of medicines at the infirmary called for the serious and immediate consideration of the directors.

FIBREGLASS IN THE CHEMICAL INDUSTRY

IN the thirteenth century the Venetians used finely drawn glass in the intricate decoration of their glassware. Little advance was made in the technique until, at the close of the nineteenth century, Owens, an American, produced fibres from heated glass rods. The fibres were subsequently woven into an attractive cloth and used for lamp shades. In 1931 the process of making glass fibres was further advanced by utilising a steam current to attenuate the glass, thus providing greater lengths from a given quantity of glass. Many industrial uses have been found for the material.



TENSILE STRENGTHS OF FIBREGLASS AND COTTON TAPES COMPARED

A=Continuous filament fibreglass, 0.010 *in.* x 1 *in.*
B=Staple fibre fibreglass, 0.010 *in.* x 1 *in.*
C=Cotton, 0.011 *in.* x 1 *in.*

Production

Within recent years glass fibres for the British market and for export have been produced by a specialist company: Fibreglass, Ltd. In the process used, sand, soda ash, limestone, etc., of high quality and proportioned according to the type of fibre required, are fed as granules into a furnace and melted at about 1,450 C. The product is either converted into fibres immediately or made into marbles or rough sheets for subsequent remelting. The fibreglass may then be produced either by a process in which the fibres are drawn by mechanical means, or by a second method in which they are drawn by steam blast. The two processes provide a wide range of fibres suited to different purposes. "Staple" fibre is relatively short-length material from the steam drawing. Continuous filaments from mechanical drawing are of virtually infinite length. The mechanically drawn, or continuous filaments, are produced from the marbles, which are fed automatically into an electrically-heated platinum fu nace. A series of small orifices in the ba of the furnace permit the glass to flo through, and the filaments emerging a wound on to a drum. During the proce a small amount of textile size is added prevent inter-fib friction, and to allo the material to b subsequently handle in ordinary texti spinning and wea ing plants. One ma ble, weighing ½ o and approximate ¾ in. diameter, pr duces 100 miles filament. There a 102 holes in the fu nace bottom, and t rate of feed is o marble every fort five seconds, so that furnace which ope ates continuous produces in one d 1,400 miles of yar The diameter of ea filament is abo 1/5000 in., or abo 1/10th the diamet of a human ha Fibreglass may finished as cloth f chemical filtratio etc., as cords, tap and yarn, for insul tion against hea sound and electricit and in the form wool (not unlike c ton wool in appe ance) also for insul tion purposes.

Chemical Filtration

The conversion of glass into a form su able for manipulation by the textile indu try has made practical progress only in t past few years, during which time tec niques have been developed to enable t many qualities that are required by us to be provided. So numerous and speci in character are the applications of bo types of fibreglass fibres, that both the co stitution of the glass employed and the ty of fibre to be produced are subject to spec consideration for each individual applic tion. It is generally supposed that fib

lass is non-hygroscopic. That is not entirely true, since moisture may be retained y glass fabrics by capillary attraction between filaments, by surface absorption, or y absorption on the textile size. But moisure retention from any of the three causes s insignificant. Cellulosic and protein bres, which are normally used for filter abrics, swell in presence of moisture. Swelling causes dimensional changes which are eflected in a change of filter efficiency and hrinkage. Glass filter-cloth, on the conrary, is "dimensionally stable" and conequently more satisfactory than cotton filer mediums commonly in use; its property of non-absorption of liquids means that lass filter cloths dry more rapidly than any ther textile materials.

A fabric woven from glass fibres, which re wholly inorganic, is obviously nonnflammable and capable of resisting relatively high temperatures. Glass fabrics ctually gain in tensile strength from room emperature to 400 F.; from that temperature upwards their extreme strength and lexibility decrease but, even at 800 F., they have greater strength than cotton fabrics at room temperature. Workers concerned with filtration operations know that cotton filter cloth at high temperature becomes rapidly degraded and useless. The degradation means not only the loss of the cloth, but also loss of valuable time in replacing it in the filter press, to say nothing of batches spoiled as a result of the filter breaking down. Glass filter-cloth provides the works chemist with a filter medium that may be used at high processing temperatures without fear of degradation and loss in tensile strength.

Strength of Glass Fabrics

The tensile strength of both continuous filament and "staple" forms of fibreglass is greater than that of cotton yarns of comparable type and count. In the past much trouble has been caused in filtration processes owing to the fact that cotton cloth is incapable of withstanding high pressures from the feeding pump. Pressure is often desirable to speed up filtration. Furthermore, filtration under a high vacuum is also often desirable, but here again the cotton cloth is liable to burst under pressure. Glass cloth, on account of its superior strength, withstands such pump pressures.

Fibreglass has the advantage of being completely resistant to microbiological decay, under which cellulosic and protein fibres decompose. Glass filter cloth is thus particularly valuable where micro-organisms and bacteria are concerned, since also it may be produced with only half the thickness of cotton cloth while retaining its tensile strength, closer packing of the filter cloths is possible; presses using glass cloth may thus be of a more compact type.

When filter cloths are required for the chemical industry the fabric is woven from glass fibre of specific composition, formulated for its chemical resistance. No form of glass fibre has, of course, yet been made which satisfactorily withstands the manipulation of hydrofluoric and phosphoric acids, or concentrated hot solutions of caustic soda. Apart from these, many processes in the chemical industry, in which it has hitherto been practically impossible to filter adequately owing to the corrosive nature of the material, are made possible by glass-cloth filtration.

Air Filtration

For air filtration, glass fibres are usually treated with a special dust-collecting adhesive, and the fibres built into a mat 2 in. thick, faced with metal grills and enclosed in a wooden frame. The fibres in the mat are graded in diameter and in density of packing. Coarse fibres, loosely packed, are used at the inlet side of the filter; on the outlet side finer fibres are used, more closely packed. Such an arrangement results in trapping large dust particles close to the inlet surface, while smaller particles penetrate farther into the mat; resistance to air-flow through the filter is decreased, and the filter does not easily become clogged. As the mats are made in standard sizes the filter unit may be removed when spent and another one inserted. The adhesive on the fibres does not become absorbed, so that its active life is much longer. Filters of this kind are particularly suitable for use in chemical works, where the atmosphere is liable to be contaminated with corrosive products, and they are also efficient in handling industrial atmospheres in the cities, wherein acid oxides are invariably present. They function efficiently in moist atmospheres because they do not take up any appreciable quantity of water. The viscous product used in the air filters has the special property of spreading over the dust particles after they have been trapped. Assimilation of the dust particles prevents accumulated masses of dust being blown through the filter. The adhesive is non-volatile, has a high flash point, and will not run off the fibres at any temperature less than 220 F.; it is fire-resisting and at high temperatures

produces vapours that tend to reduce combustion. Air-filter units may be used singly, tandem-wise, or in parallel banks, and the frames to carry the units are usually designed as part of the ventilation equipment. When clean, a filter unit of this type offers a resistance of less than 0.1 in. water gauge to an air velocity of 300 ft. per minute. In a test with pollen dust, which is particularly difficult to filter, two 20 in. x 20 in. x 2 in. units in tandem gave 98 per cent. filtration, again with an air velocity of 300 ft. per minute.

The features that make fibreglass valuable in refrigeration include its low thermal conductivity, light weight (5 lb. per cu. ft.), resistance to vibration, and inert properties (including absence of any sustenance to vermin). Fibreglass in wool form meets the requirements of cold-chamber insulation.

RECENT RESEARCH

Identification of Barbiturates.—Turfitt ("Quarterly Journal of Pharmacy and Pharmacology," March, p. 1) describes a microchemical procedure for the routine identification of barbiturates by (a) purification of the crude material with charcoal, etc.; (b) preliminary identification as a barbiturate; (c) colour reactions; (d) observation of crystalline form; and (e) mixed melting - point determinations. Twenty-four micro-photographs are included of crystalline forms of the drugs.

Enteric Coatings.—Using artificial gastric juice, Bauer and Masucci ("Journal of the American Pharmaceutical Association, Scientific Edition," March, p. 124) carried out tests on various enteric coatings. They find that cellulose acetate is satisfactory; it disintegrates chiefly in the jejunum. *X*-ray observations indicated that butyl stearate takes longer to dissolve and the tablets disintegrated under the conditions of the experiment in the ileum and colon. The writers point out that enteric-coated tablets disintegrate in the intestinal contents, which are seldom alkaline, and not in the intestinal secretions.

Detection of Drugs in Horse Saliva.—Morgan, of the New York State Racing Commission laboratory, and Gellhorn, of the department of pharmacology, College of Physicians and Surgeons, Columbia University, New York, have compared the sensitivities of a biological method and a chemical method of detecting drugs in the saliva of horses ("Analytical Chemistry," 1947.II. 806). To determine the sensitivity of the biological method, samples of horse saliva were pooled, known amounts of some twenty drugs were dissolved in samples, and small quantities of these solutions were injected intraperitoneally into batches of mice. The mice were observed for fifteen minutes, and changes in gait, hair, respiration, tail posture, etc., noted. By this method, two end points, equivalent to a "threshold" dose and a "positive" dose, were obtained. The results, however, were considered to be unreliable, and a subsequent test on "unknown" solutions showed that the biological method gave a large error in detecting drug-contaminated saliva, while a chemical method was carried out without error.

Yields from Australian Eucalyptus.—P. A. Berry ("Australian Chemical Institute Journal and Proceedings," Vol. 14, May, p. 173) states that the yield of oil from *Eucalyptus coneorifolia* increases from September onwards, culminating in a flush period usually in the early part of December associated with the rapid growth of the young tips. Maximum terpene content in the oil is obtained at this time. Satisfactory rainfall during winter and spring is an important factor in the production of oil. A method of estimating cryptone, a constituent of the oil, by using the property which that compound possesses of forming a solid addition compound with sodium bisulphite, is also described.

Structure of Vaccinia Virus. — By examination under an electron microscope, Dawson and McFarlane ("Nature," March 27, p. 464) have established at the National Institute for Medical Research, Hampstead, London, that the structure of vaccinia virus is "definitely more complex" than the fully crystalline structure of plant viruses. After digestion with pepsin, vaccinia viruses showed, under an electron microscope, a residual central structure, for which the authors suggest the name nucleus. Gold-shadowed pictures of complete viruses, purified by salt flocculation, showed a granular appearance, which was taken to indicate a close packing of protein macromolecules. Although the internal structure is by no means clear, the authors suggest that the virus may contain a protein network of varying degrees of orderliness. They do not favour any theory of identity between the structure of virus and that of bacteria.

GUIDE TO NEW MEDICAMENTS

formation about new proprietary medicaments to be supplied principally on prescrip-ns. Editorial recommendation is not implied. Reprints obtainable on application.

GLANOID LIVER and YEAST CONCENTRATE

ANUFACTURER: The Armour Laboratories, Lindsey Street, London, E.C.1.

ORMULA: Each fluid ounce of the preparation contains the concentrated extract derived from 112 gm. of fresh liver and 2.16 gm. of yeast, riboflavin 4.4 mgm.; aneurine hydrochloride 2.9 mgm. (vitamin B_1 928 i.u.); with glycerin 5 per cent., alcohol 15 per cent., and flavour, q.s.

DICATIONS: Malnutrition and low health following illness or operation.

OSAGE: Two teaspoonfuls once or twice daily as a tonic.

OW SUPPLIED: 4, 8 and 16-oz. bottles.

NITROGEN MUSTARD HYDROCHLORIDE (BOOTS)

ANUFACTURER: Boots Pure Drug Co., Ltd., Nottingham.

ESCRIPTION: Crystalline di-(-2-chloroethyl) methylamine hydrochloride.

SES: Palliative treatment, in reticuloses, such as Hodgkin's disease; blood diseases, including leucæmia, lymphosarcoma; bronchogenic carcinoma, etc.

OSAGE: 0.1 mgm. per kilo of body weight daily for a total of three to six days. The maximum single dose should not normally exceed 8 mgm., and an interval of at least six weeks should elapse between courses of treatment.

OW SUPPLIED: Boxes of ten vials each containing 10 mgm. of the salt.

OTES: Solutions must be freshly prepared, and should be administered as soon as solution is complete.

BECOSYM

ANUFACTURER: Roche Products, Ltd., Welwyn Garden City, Herts.

ESCRIPTION AND FORMULA: Sugar-coated tablets each containing:

Vitamin B_1	1 mgm.
Vitamin B_2	2 mgm.
Nicotinamide	20 mgm.
Vitamin B_6	2 mgm.
Calcium pantothenate	3 mgm.

NDICATIONS: Disorders due to a deficiency of more than one vitamin of the B-complex.

OSAGE: Prophylactically: One to two tablets daily.
Therapeutically: One to two tablets three times a day.

OW SUPPLIED: Bottles of 25, 100, and 500 tablets.

PRIVINE

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: 1 in 2000 and 1 in 1000 aqueous solutions of 2-(naphthyl-methyl)-imidazoline nitrate.

INDICATIONS: Nasal congestion due to rhinitis, sinusitis and hay fever; conjunctivitis, keratitis, etc.

USE: By instillation into the nose or eye, on nasal tampons, or by atomiser.

HOW SUPPLIED: ½ fl. oz. dropper bottles

NOTES: The maker states that the solutions are isotonic, buffered, and contain a preservative, and that they are compatible with zinc and silver compounds, and with penicillin.

B.P. CHANGES AT A GLANCE

(*Concluded from* THE CHEMIST AND DRUGGIST, *August* 21, *p.* 253)

New monographs in **Black Type.** Retained monographs in CAPITALS.

LIQUOR PLUMBI SUBACETATIS FORTIS.—Weight per mil at 20°, about 1.28 gm. New assay for total lead and alkalinity.

Lotio Calaminæ. — Calamine, 15% w/v; zinc oxide, 5% w/v; glycerin, 5% v/v in distilled water.

MAGNESII CARBONAS, LEVIS AND PONDEROSUS.—Arsenic limit reduced to 2 parts per million and lead limit to 15 parts per million. Time of boiling added in test for soluble matter. Limit test for iron modified.

MAGNESII OXIDUM LEVE AND PONDEROSUM. —Lead limit raised to 30 parts per million.

Magnesii Sulphas Exsiccatus. — Contains 62.0 to 70 per cent. of $MgSO_4$. Soluble in 2 parts of water at 15.5°. Arsenic limit, 5 parts per million. Lead limit, 10 parts per million.

MENTHOL. — Monograph of Addendum V modified by exclusion of "mixed isomeric menthols," i.e., lævo-menthol (natural or synthetic) and racemic menthol are official only.

Methylthiouracilum. — Purity, 99.0 per cent.

Neostigminæ Bromidum and Neostigminæ Methylsulphas.—98.0 per cent. purity.

OCULENTA.—**Oculentum Atropinæ:** Atropine Sulphate, 0.25 per cent. OCULENTUM PENICILLINI: 1,000 units per gm. Water for injection must not be used in preparing penicillin ointment for the eye.

[*Oculentum Iodoformi,* deleted].

OILS, ESSENTIAL.—There are no additions and few changes in requirements.

OLEUM CARYOPHYLLI. — Optical rotation, 0° to − 1.5° (added).

OLEUM LIMONIS. — Aldehydes, calculated as citral, restored to 4.0 per cent. (from the 2.5 per cent. of Addendum VII).

OLEUM MYRISTICÆ. — Solubility requirement restored to in 3 volumes of alcohol (90%) at 15.5°. Weight per mil, at 20°, 0.862 to 0.922.

OLEUM ROSMARINI. — Apparent cineole content not to exceed 33.0 per cent. w/w (instead of 39°).

[*Oleum Abietis; Oleum Santali; Oleum Santali Australiensis*]

OILS, FIXED.—Changes include the following: OLEUM AMYGDALÆ. — Source stated as *Prunus amygdalus,* Batsch. var. *dulcis* (D.C.). Koehne or of *Prunus amygdalus,* Batsch. var. *amara* (D.C.) Focke. Weight per mil, at 20°, 0.909 0.914 gm.

OLEUM ARACHIS.—Acid value, not mo than 2.0 (4.0). Weight per mil, at 20 0.911 to 0.915 gm.

OLEUM GOSSYPII SEMINIS. — Weight p mil, at 20°, 0.915 to 0.920 gm. Te for arachis oil omitted.

OLEUM HIPPOGLOSSI.—Weight per mil, 20°, 0.917 to 0.925 gm. Maximum do increased to 8 minims (12,000 units Vitamin A).

OLEUM HYDNOCARPI.—Weight per mil, 20°, 0.946 to 0.956 gm. Acid valu not greater than 6 (not more than 2

OLEUM LINI. — Reference to non-use "boiled" linseed oil omitted. Weig per mil, at 20°, 0.924 to 0.934 gr Test for resin and resin oil modified viewing on white tile. Arachis oil te omitted.

OLEUM MORRHUÆ. — Weight per mil, 20°, 0.917 to 0.924 gm. Iodine valu 155-177 (155-173). Dose (changed), to 180 min. daily in divided doses.

OLEUM OLIVÆ. — Test for tea-seed added.

OLEUM RICINI. — Requirement to kee bright at 0° (for three hours) omitte

OLEUM SESAMI. — Acid value, not mo than 2.0 (4.0). Arachis oil test omitte

OLEUM THEOBROMATIS.—Acid value, n more than 3.0 (4.0). M.P., 29°-3 (30°-35°).

PARAFFINA. — M.P. of Hard Paraffin, 50 57° (50°-60°); White Soft Paraffin, 38 56° (40°-60°); Yellow Soft Paraffi 38°-56° (38°-46°). Liquid Paraffin an Light Liquid Paraffin: visual test fo solid paraffins added.

Papaverinæ Hydrochloridum. — M.W 375.8. M.P. 215°-225°. Loss on dryin at 100°, not more than 1.0 per cen Ash limit, 0.1 per cent. Dose, 2 to 4 g

[*Pasta Acidi Tannici*].

PENICILLINUM.—Contains not less than 90 units per mgm.

Pethidinæ Hydrochloridum.—M.W. 283. Purity, 99.0 per cent. Dose, 2/5 t 1½ gr.

Picrotoxinum.—M.W. 602.6. M.P. 198 200°. Ash limit, 0.2 per cent. Dose 1/00 to 1/20 gr.

[PILULA.—*Pilula Aloes et Asafœtidæ* an *Pilula Aloes et Ferri* are deleted].

Potassii Chloridum.—M.W. 74.55. Purity 99.5 per cent. Dose, 15 to 30 gr.

vflavinæ Hemisulphas. — Neutral sulphate replacing the proflavine sulphate of Addendum IV. M.W. 552.6. Purity, 98 per cent.

charinum.—M.W. 183.2. Purity, 97.0 per cent. M.P., not below 226°.

ONES.—Monograph for Sapo Animalis describes tests for free fatty acid, alkali hydroxide, and total-free alkali in extended detail.

DIUM SALTS. — Additions are: Sapo Durus and Sapo Mollis as Addendum III.

dii Aurothiomalas.—Limits, Au, 44.5 to 46 per cent.; Na, 10.8 to 11.3 per cent.

dii et Laurylis Sulphate.—A mixture of sodium primary alkyl sulphates, mainly sodium lauryl sulphate. Contains not less than 58.0 per cent. w/w of total alcohols.

dii Phosphas Exsiccatus.—M.W. 142.0. Purity, 99.0 per cent. Arsenic and lead limits, 10 parts per million, Dose, 10 to 75 gr.

eletions are: *Sodii Lactas; Sodii Morrhuas; Sodii Phosphas Effervescens; Sodii Sulphas Effervescens;* and *Sodii Thiosulphas*].

ABELLÆ.—A formula for chocolate basis is included in "General Processes." Of the 49 monographs, 31 are substantially identical with those of Addendum VII, and 18 are new whilst 4 (*carbromal, erythrityl tetranitrate, hexamine,* and *sulphapyridine*) are *deleted.* Formula and strength are prescribed for three new tablets, viz.:—

abellæ Acidi Acetylsalicylici cum Ipecacuanha et Opio. — Acetylsalicylic acid and powder of ipecacuanha and opium, 2½ gr. of each. Dose, 1 or 2 tablets.

abellæ Acidi Acetylsalicylici et Phenacetini. — Acetylsalicylic acid, gr. 3½, and phenacetin, gr. 2½. Dose, 1 or 2 tablets.

abellæ Succinylsulphathiazoli.—Follows procedure of Addendum VII in regard to tablets of barbiturates, i.e., contains 93.5 to 105.0 per cent. of the prescribed, or stated amount.

abellæ Codeinæ Co. — Acetylsalicylic acid, gr. 4; phenacetin, gr. 4, and codeine phosphate, gr. ⅛ in each. Dose, 1 or 2 tablets.

The majority of the new monographs ollow the Seventh Addendum in giving imits for tablets of different strengths. The trengths to be dispensed or supplied, when his is not stated, are as follows:—

Tablet	*Dispense*
Acetomenapthoni	5 mgm.
Aethisteroni	5 mgm.
Aneurinæ Hydrochloridi	1 mgm.
Dinœstrolis	0.1 mgm.
Digitalis Præparatæ	1 grain
Digoxini	0.25 mgm.
Ergotæ Præparatæ	2½ grain
Hexœstrolis	1 mgm.
Ipecacuanhæ et Opii	5 grains
Methyltesteroni	5 mgm.
Methylthiouracil	0.1 gram
Œstroni	1 mgm.
Thiouracil	0.1 gram
Thyroidei	½ grain

[*Strophanthinum*].

Succinylsulphathiazolum. — M.W. 373.4. M.P. 188°-195°. Purity, 99.0 per cent. Arsenic limit, 2 parts per million. Lead limit, 10 parts per million. Dose, 45 to 90 gr.

[*Sulphapyridina* and *Sulphapyridina Solubilis*].

SUPPOSITORIA. — The following are additions:—

Bismuthi Subgallas, 0.3 gm. (5 gr.).

Cocainæ, 15 mgm. (¼ gr.) of cocaine hydrochloride.

Hamamelidis, 0.2 gm. (3 gr.) dry extract.

Hamamelidis, et Zinci Oxidi, 0.2 gm. (3 gr.) of dry extract and 0.6 gm. (10 gr.) of zinc oxide.

[*Suppositoria Plumbi cum Opio* is deleted].

SYRUPI.—Modifications include:—

SYRUPUS AURANTII. — Preparation as B.P. 1932, i.e., concentrated tincture of Addendum V cancelled.

SYRUPUS PRUNI SEROTINÆ.—Substitute formula of Addendum IV cancelled. Formula as B.P. 1932 with process modified in detail.

SYRUPUS SENNÆ.—Made with liquid extract (1) in syrup (to 4).

[Deletions are: *Syrupus Ferri Iodidi; Syrupus Ferri Phosphatis cum Quinina et Strychnina; Syrupus Ferri Phosphatis cum Strychnina*].

Testosteroni Propionas. — 17-propionoxy-Δ^4-androsten-3-one. M.W. 344.5. M.P. 118°-122°. Doses, 1/12 to 2/5 gr.

Thiouracil. — 2-mercapto-4-hydroxypyrimidine. M.W. 128.2. Doses, 1½ to 3 gr.

Tetrachlorethylenum.—M.W. 165.8. B.P. 118°-122°. Weight per mil, at 20°, 1.622 to 1.630 gm. Doses, 15 to 45 min.

[*Thyroxinsodium*].

TINCTURA.—Changes include deletion of all eleven concentrated tinctures of Addendum V, and permission to omit glycerin (by Addendum IV, in Tinc. Card. Co., Tinct. Ipecac., and Tinct. Rhei Co.) withdrawn. Also:—

TINCTURA BENZOINÆ COMPOSITÆ.—Sumatra benzoin required.

TINCTURA CAPSICI. — Organoleptic (pungency) test added.

TINCTURA COLCHICI.—Use of seed restored (Corm. of Addendum VII cancelled).

TINCTURA DIGITALIS.—A maceration process added as third alternative.

TINCTURA NUCIS VOMICÆ.—Alcohol (45%) used. Alcohol content, 43-46% v/v (47-50).

TINCTURA OPII CAMPHORATA. — Assay modified as regards colorimetry.

[Other tinctures deleted are: *Asafœtida, Cinchona, Cinchona Co., Lobelia Æth., Krameria,* and *Quillaia*].

Toxinum Staphylococcum Detoxicatum.—*See* Vaccina.

Trichloroæthylinum.—M.W. 131.4. B.P. 86° to 88°. Weight per mil, at 20°, 1.462 to 1.468.

[*Trinitrophenol*].

TROCHISCI PENICILLINI. — Now variable strength. 500 units per lozenge is to be dispensed when the strength is not stated.

Tuberculinum Derivativum Proteinicum Purificatum.—*See* note under Vaccina.

UNGUENTA.—The B.P. ointments have suffered more modifications than any other preparations and the monographs complete the clarification commenced in Addenda VI and VII. In particular standards (with assays) are added with limits as follows:—

		Strength (and Limits), per cent.
UNGUENTUM	ACIDI BORICI	1.0 (0.9-1.1)
,,	ACIDI SALICYLICI	2.0 (1.9-2.1)
,,	HYDRARGYRI	30.0 (29.0-31.0)
,,	HYDRARGYRI AMMONIATI	2.5 (2.25-2.75)
,,	HYDRARGYRI COMPOSITUM	12.0 (11.5-12.5)
,,	HYDRARGYRI DILUTUM	10.0 (9.5-10.5)
,,	HYDRARGYRI NITRATIS DILUTUM	Equivalent of 1.34% Hg.
,,	HYDRARGYRI NITRATIS FORTE	Equivalent of 6.7% Hg.
,,	HYDRARGYRI OLEATI	Equivalent of 5.0% HgO (4.5-5.5)
,,	HYDRARGYRI SUBCHLORIDI	20.0 (19.0-21.0)
,,	PHENOLIS	2.0 (2.5 to 3.1 per cent. when freshly prepared).
,,	SULPHURIS	10.0 (9.5-10.5)
,,	ZINCI OLEATIS	5.2 of ZnO
,,	ZINCI OXIDI	15.0 (14.0-15.5) of ZnO
,,	ZINCI OXIDI AQUOSUM	15.0 (14.0-15.5) of ZnO

There are two new ointment bases and two changes:—

Unguentum Emulsificans. — Consists of emulsifying wax, 30; white soft paraffin, 50; and liquid paraffin, 20 per cent. w/w.

Unguentum Emulsificans Aquosum.—Composed of emulsifying ointmen 30% w/w; chlorocresol, 0.1% w/v and distilled water, 69.9% w/w.

UNGUENTUM PENICILLINI. — Now varyin strengths. Dispense 500 units per gn when strength not stated.

UNGUENTUM ZINCI OLEATIS.—White so paraffin restored as base (in place c hydrous ointment of Addendum VI).

[Deletions are *Unguentum Acidi Tannic Unguentum Chrysarobini;* and *Un guentum Hydrargyri Ammoniati Aquo sum*].

[*Urginea*].

Vaccina.—Several have been added to pro vide legal standards for parts of th British Empire where otherwise the would not exist. These are:—

V. Bacterialia; V. Acnes; V. Choleraicum V. Dysentericum (Flexner); V. Febri Flavæ; V. Pertussis; V. Pestis; V Staphyococcum; V. Tuberculinum; V Typhi Exanthematici.

[*Valeriana Indica*].

[*Zinci Chloridum*].

Zinci Peroxidum.—Contains not less tha 45.0 per cent. of ZnO_2.

CORRESPONDENCE

Sulphamezathine Solutions

SIR,—We have read with much interes the reference to Sulphamezathine for coc cidiosis in poultry (see *C. & D.*, Augus 14, p. 228). The method of effecting solu tion of Sulphamezathine by means of caus tic soda is one that has been used ex tensively and produces satisfactory results It is not, however, one of practical con venience, and for this reason we woul like to draw your attention to the avail ability of a 16 per cent. solution of Sul phamezathine. This is issued expressly for the use of poultry keepers and only needs dilution before use. You may care to draw the attention of your readers to the availability of this Sulphamezathine solution and the greater convenience it offers to poultry keepers over the older methods. We are also about to introduce a sulphamezathine tablet for the preparation of Sulphamezathine solutions for use against caecal coccidiosis. Each tablet contains 1.25 gm. Sulphamezathine and is dissolved in a pint of water to produce a solution of the requisite strength for treatment.

Yours faithfully,

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.

Manchester.

MISCELLANEOUS INQUIRIES

Institute of Management. — *C. M. W.* — The dress of the British Institute of Management is Hill Street, London, W.1.

Supplementary Veterinary Register.—*C. L.*—To cure admission to the Supplementary Veterinary egister application must be made in the first ace to: The Registrar, The Royal College of eterinary Surgeons, 9-10 Red Lion Square, Lon-on, W.C.1.

Solubility of Sulphacetamide.—*H. B.*—Following quests, the solubility of sulphacetamide in glycerin as determined by the analytical department of ard, Blenkinsop & Co., Ltd., who found that o gm. of glycerin, B.P., at 20°C. dissolves 1.181 n. sulphacetamide or 16.3 gm. sulphacetamide dium.

Colchicine as Plant Hormone.—*B. & C.*—In ex-riments to examine the effect of colchicine on ant growth carried out on the root tips of *Allium pa* and *A. fistulosum*, solutions in concentrations nging from 0.125 to 2.0 per cent. were used, e periods of immersion being seven to seventy-o hours. The interval between the end of the mersion period and fixing was from nil to seventy-wo hours. Work was later done on datura seeds, which it was found that soaking them for ten ys in concentrations ranging from 0.1 to 1.6 er cent. caused the creation of polyploids (the lants with multipliable chromosomes that are the im of treatment with colchicine). At lower con-entrations the treatment was ineffective and at igher concentrations there was risk of damage to e plants. Too prolonged immersion in a solu-on involved the risk of inhibited germination.

Setting Lotions.—*M. W.*—Below are three for-nulas for setting lotions:—

I

Gum tragacanth	1.2 gm.
Alcohol	15.0 gm.
Glycerin	2.0 gm.
Water	83.0 gm.
Preservative	q.s.

II

4 per cent. quince seed mucilage	40.0 gm.
Alcohol	20.0 gm.
Water	40.0 gm.
Preservative	q.s.

III

Gum acacia	2.0 gm.
Borax	1.0 gm.
Alcohol	20.0 gm.
Water	77.0 gm.
Preservative	q.s.

Nigerian Import Duties.—*H. H.*—Spirituous preparations entering Nigeria, other than medicinal preparations containing less than 4½ per cent. proof spirit or other liquids containing less than 2 per cent. proof spirit, are subject, under Ordinance No. 58 of 1945, to an import duty of £2 12s. per gall. or 66⅔ per cent., *ad valorem*, whichever is the greater. A special exemption is made for "methylated and other non-potable spirits which the Comptroller is satisfied are intended solely for industrial, medical or scientific purposes, and are not intended for sale or exchange." Soap is ordinarily dutiable at 4s. per 100 lb. and soap powders at twopence per lb. Dentifrices are understood to be chargeable at a special rate. Perfumery and toilet articles (including manicure sets) not subject to duty as spirits, soaps or dentifrices, "and any article intended to form part of any such preparation or accessory," are subject to a duty of 66⅔ per cent. *ad valorem*.

Ointment Bases.—*R. W. W.*—Ointment bases of the cold cream type possessing the properties you mention may be made to the following formulas:—

I

Glyceryl monostearate	10 gm.
Stearic acid	5 gm.
Neutral hydrocarbon oil	2 gm.
Triethanolamine	1 gm.
Water	65 gm.
Glycerin or d-sorbitol	4 mils

II

Diglycol stearate	200 gm.
Cetyl alcohol	10 gm.
Water	900 gm.
Glycerin or d-sorbitol	80 mils

III

Stearic acid	15.0
Cetyl alcohol	0.5
Glycerin or d-sorbitol	5.0
Potassium hydroxide	1.0
Water	78.5

If a stock of these ointment bases is to be made, a preservative should be incorporated.

Suntan Preparations.—*E. H.*—Formulas for suntan preparations of various types are given below:

I

Suntan Oils

Olive oil	49.9
Peanut oil	49.0
Perfume	1.0
Colour, oil soluble brown	0.1
Sun screen	5.0

II

Coconut oil	50.0
Peanut oil, refined	43.0
Sesame oil	5.0
Oil of thuja	1.0
Perfume	1.0
Sun screen	5.0

Sun-burn cream (cold cream type)

Beeswax	18 gm.
Neutral hydrocarbon oil	40 gm.
Sun screen	10 gm.
Water	31 gm.
Borax	1 gm.
Preservative	q.s.
Perfume	q.s.

Suntan cream (greaseless type)

Diglycol stearate	20 gm.
Sun screen	5-10 gm.
Glycerin	10 gm.
Water	80 gm.
Preservative	q.s.
Perfume	q.s.

Substances which may be used for sun screens include the following: Water-soluble: quinine bisulphate, sodium naphthol-6 disulphonate; oil soluble: menthyl salicylate, p-hydroxy-naphthoic acid. Colouring may be added to the preparations if desired.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quant ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, August 25

While the export demand for a good range of Pharmaceutical Chemicals continues fairly satisfactory, conditions in the home market remain quiet with most business restricted to limited quantities. Supplies in most directions are reported adequate and values throughout are steadily maintained. A general improvement in domestic requirements is expected as the autumn approaches. The home demand for Crude Drugs has mostly been confined to orders for smallish spot parcels while the markets for a number of these products have been more or less lifeless. There is a fair amount of export inquiry for quite good quantities of some of these commodities, particularly from Scandinavian countries, but currency difficulties continue to impede this trade. It seems that dealers are unable to obtain the necessary export licences unless payment is to be made by the overseas buyer in dollars. This, they are unwilling, or probably unable, to do. There is little doubt that if overseas buyers were permitted to pay in dollars they would not come to this market for their supplies, but go direct to the various sources. Continued insistence on the part of the authorities that export licences will only be granted against dollar transactions is causing the loss of a good deal of business in this market. A rather better volume of business is reported on spot in Brazilian Menthol. Some consumers are inquiring for supplies of the Chinese material but the dollar difficulty is preventing any sizeable imports. Practically all supplies from this scurce are being booked for shipment to America. Dealers report no change of importance in their quotations for Essential Oils, the demand for which remains quiet. The Minister of Food announces that no changes will be made in the prices of Unrefined Oils and Fats and Technical Animal Fats allocated to primary wholesalers and large trade users during the four-week period ending September 25.

U.S. Drug and Chemical Report

New York, August 20

Quiet conditions continue in most directions in the Fine Chemicals market with no change in quotations of importance to record. Supplies of most products appear to be adequate. Sales of Camphor, both powdered and tablets, are expected to rise substantially in the second half of the year. The market is firm and the present price levels are expected to be maintained. Menthol is a trifle easier with Brazilian offered at $9.25 to $9.50 per lb. Some forward business has bee done in Chinese menthol for nearby shi ment. There is little of interest to repo in the Botanical Drugs and Spice ma kets with business dull and quotation generally unchanged. The Carnauba Wa market has become more stable, and som business has been done at the new price recently approved by the Brazilian Senat which are about 10 cents per lb. abov previous levels. Little change took plac in the Essential Oils market, whe some dealers in Orange Oil, in order t liquidate stocks quoted down to $1.45 t $1.50 per lb. Spearmint has been reduce to $6.25 to $6.75 per lb. The price c Phenol has been advanced by one leadin producer by half a cent per lb., effectiv September 1, to 12½ cents a lb., in tan cars; 14½ cents, in drums, in carload lo and 15 cents, in drums, in 1,000 lb. c more. This advance is the result of th higher cost of Benzol and is expected t be copied by other producers. Demand f Phenol continues keen and the materi is not expected to be in free supply fo some time to come. This year's productio is anticipated to equal, if not exceed, th 1947 output of 208.4 million lb., sinc the supply of Benzol for Phenol produ tion is expected to be sufficient to permi producers to work at full capacity. Pr duction of technical and USP (syntheti and natural) Phenol in May amounted t 23,408,307 lb., which was about 150,00 lb. above the April output.

Pharmaceutical Chemicals

Acetanilide.—Quotations for 1-cwt. lot in kegs are 2s. 4½d. per lb. for crystals an 2s. 5½d. for powder.

Adrenaline. — B.P. is quoted fro 5s. 6d. to 6s. per gm. for natural and 2 to 2s. 6d. for synthetic; racemic, 2s. p gm.

Barbitone.—Base and soluble are avai able at prices from 43s. 6d. to 46s. per l

Barium sulphate, B.P. (*x*-ray).—Price are unchanged. 1 cwt., 1s. 3d. per l Schedule rates per lb. (containers in bra kets), for quantities between 28 lb. an 1 cwt. are as follows: 1s. 8d. (1-lb.) 1s. 7d. (2-lb.), 1s. 6½d. (4-lb.), 1s. 5½ (7-lb.), 1s. 5d. (14-lb.), 1s. 4d. (28-lb.).

Benzoic acid.—Fair supplies availabl Makers' quotations are 2s. 7d. to 3s. pe lb. for B.P., with technical grade, 2s. 6d to 2s. 8d. Sodium benzoate, 2s. 5d. t 2s. 8d.

Benzonaphthol. — B.P.C. quality i offered at 14s. 6d. per lb.

Benzyl Benzoate. — B.P. quality i quoted from 4s. 6d. to 5s. per lb., accord

to quantity; perfumers' quality, 5s. to 6d. per lb. Supplies are plentiful.

ORIC ACID.—Current rates for ton lots B.P. quality are: Granulated, £60; stal, £61; powder, £62. Commercial des, £8 per ton less. Packed in 1 cwt. s, delivered carriage paid in Great tain, in 1-ton lots and upwards. Terms ted do not apply to Northern Ireland.

ALAMINE. — Pharmacopœial quality is ut 2s. per lb.

ALCIUM GLUCONATE.—Makers' prices are m 3s. 1d. to 3s. 4d. per lb. Supplies fair.

ARBROMAL.—Importers' quotations are 45s. per lb. In short supply.

HLORAL HYDRATE.—Current rates per for the home trade, are as follows: wt. lots, 4s.; 56-lb., 4s. 2d.; 28-lb., 4d.

HLOROFORM.—Current prices are as folws: 1-cwt. lots in winchesters, 2s. 11d. r lb.; 56-lb. lots, 3s. 2½d.; in drums, 1d. and 3s. 1½d. respectively.

ITRATES.—Makers' rates are unchanged. TASSIUM, 5-cwt. lots, 2s. 10½d. per lb.; wt., 2s. 11½d.; scheduled prices for antities of 28 lb. to 1 cwt. are (coniners in brackets): 3s. 9½d. (1-lb.); 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. 4-lb.); 3s. 5½d. (28-lb.); IRON AND MMONIUM CITRATE, B.P., 7d. per lb. re; SODIUM, B.P., 3d. per lb. less; wder, 1d. per lb. extra.

ITRIC ACID, B.P. — Makers quote 5½d. to 1s. 7½d. per lb., less 5 per cent., r 1-cwt. lots, delivered in the United ingdom.

REAM OF TARTAR.—Supplies of British aterial meeting requirements. Current tes for the home trade: 10-cwt. lots, 53s. per cwt.; 5 to 10-cwt., 154s.; less an 5-cwt. and more than 2-cwt., 155s.; ss than 2-cwt. and more than 1-cwt., 57s.

REOSOTE.—B.P quality, ex beechwood, uoted at from 7s. per lb., upwards.

RESOL.—Controlled price of B.P. qualy from distillers is 4s. 6d. per gall., ex ellers' premises.

THYLMORPHINE. — Home trade prices er oz.: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 5s.; 2 oz., 53s. 6d.; 3 oz, 52s. 9d.; 4 oz., 2s. 6d. HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 6s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 4s.

IAMORPHINE.—Home trade rates, per z.: ALKALOID, ½ oz., 54s. 6d.; 1 oz., 52s.; oz., 50s. 6d.; 3 oz, 49s. 9d.; 4 oz., 49s. 6d. YDROCHLORIDE, ½ oz., 50s. 3d.; 1 oz., 7s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; oz., 45s. 3d. per oz.

UAIACOLS. — Liquid quoted at from 4s. 6d. to 16s. per lb., and crystal and arbonate, 14s. to 15s., according to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

HYOSCINE HYDROBROMIDE.—Makers' quotations are from 147s. 6d. to 150s. per oz., according to quantity.

METOL.—Prices for quantities: 10-cwt., 19s.; 5-cwt., 19s. 6d.; 1-cwt., 20s.; 28-lb., 21s.; 14-lb., 23s.; 7-lb., 24s. per lb. Carriage paid in the United Kingdom.

PEPTONE. — Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENACETIN.—Supplies continue scarce; nominal prices, from 5s. to 6s. per lb.

PHENAZONE.—Nominal prices are from 32s. 6d. to 35s. per lb.

PHENOLPHTHALEIN. — Manufacturers' prices are as follows: 1-cwt. lots, 6s. 1d.; 28-lb., 6s. 3d.; 14-lb., 6s. 6d. per lb.

PILOCARPINE.—Makers' prices are unchanged. Rates per oz. are: ALKALOID.—1 oz., 36s. 9d.; 4 oz., 35s. 3d.; 25 oz., 34s. HYDROCHLORIDE—1 oz., 34s. 9d.; 4 oz., 33s. 3d.; 25 oz., 32s. NITRATE.—1 oz., 33s. 3d.; 4 oz., 31s. 9d.; 25 oz., 30s. 6d.

PIPERAZINE. — Current prices from 4s. 6d. per oz., according to quantity.

ROCHELLE SALT.—Current rates per cwt. for powder are: 1 cwt., 162s. 6d.: 5 cwt., 160s. SEIDLITZ POWDER, ordinary strength is quoted at 126s. 3d.; extra strong, 136s.; and double strength, 141s. 9d. per cwt.

SANTONIN.—Supplies are scarce; 5 kilos, £44 per kilo; less than 5 kilos, £45; 1 kilo, £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K.

STEARATES.—Current rates per cwt. in 1-cwt. lots are as follows: ALUMINIUM, 235s. 6d.; CALCIUM, 217s. 6d.; MAGNESIUM, 237s. 6d.; LEAD, 240s. 6d.; ZINC, 222s. 6d. 5-cwt. lots are 2s. 6d. per cwt. less and 1-ton lots 7s. 6d. less per cwt. than above prices. Carriage paid in U.K.; packing free.

SULPHANILIC ACID, B.P.C. — Current quotations are around 6s. per lb.

SULPHONAL.—Quoted from 44s. to 53s. per lb., as to quantity.

TANNIC ACID. — Moderate supplies reported. B.P. levis is from 8s. 9d. per lb.; ether soluble, from 9s. per lb.

VALERIANATES. — AMMONIUM, 14 lb., 37s. 6d.; 7 lb., 38s. 6d.; 1 lb., 39s. per lb. AMYL, 14 lb., 23s. 6d.; 7 lb., 25s.; 1 lb., 26s. per lb. CAFFEINE, 14 lb., 105s.; 7 lb., 107s. 6d.; 1 lb., 110s. per lb. CALCIUM, 14 lb., 33s.; 7 lb. 34s.; 1 lb., 34s. 6d. per lb. ETHYL, 14 lb., 32s. 6d.; 7 lb., 33s.; 1 lb., 34s. per lb. IRON, 14 lb., 53s.; 7 lb., 54s. 6d.; 1 lb., 55s. 6d. per lb. MENTHYL, 14 lb., 57s. 6d.; 7 lb., 58s.; 1 lb., 59s. per lb. METHYL, 14 lb., 32s. 6d.; 7 lb., 33s.; 1 lb., 34s. per lb. QUININE (B.P.C.), 100 oz., 12s.; 50 oz., 12s. 6d.; 20 oz., 13s. 6d. per oz. ZINC, 14 lb., 53s.; 7 lb., 54s. 6d.; 1 lb., 55s. 6d. per lb.

Crude Drugs

AGAR.—Small home trade; fair export inquiry but business is held up by currency difficulties. Japanese strip, 17s. 6d. to 18s. 6d. per lb., duty paid; forward, 15s. to 16s., c.i.f.

ALOES. — Market dull and quoted unchanged. Cape, prime quality, spot, 130s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes, 210s. per cwt.; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

ANTIMONY. — Quoted dearer, 99.6 per cent., regulus, £210 per ton, delivered; 99 per cent., £200; 70 per cent. crude, £165.

BELLADONNA. — Yugoslav root (testing 0.45 per cent.) is steady at 5s. 3d., duty paid; a parcel of English leaves (0.8 per cent.) is offering at 7s. 6d. per lb.

BENZOIN.—Occasional small business reported. Sumatra block, spot from £15 to £17 per cwt., as to quality.

BISMUTH.—Metal is unchanged on quotation at 11s. per lb. for quantities of 5 cwt.

BUCHU.—Business only of small account. New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

CAMPHOR.—Small trade passing. Chinese tablets steady at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.). 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

CANTHARIDES.—Spot values for Chinese range 8s. 9d. to 9s. 6d. per lb., duty paid, according to holder.

CARDAMOMS. — A quiet market. Mangalore half-bleached A's, 9s., spot; B's, 8s., seeds, 7s. 9d. Aleppy seeds, 9s., spot; 8s. 9d. to 9s., c.i.f., per lb. Aleppy greens, 7s., spot; 6s. 9d., c.i.f. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—Very little inquiry is reported. Bark on the spot is offered from 200s. per cwt.; new-crop, forward is at about 190s., duty paid value.

CASCARILLA.—Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d. Market is dull.

CASSIA PODS (*C. fistula*).—East Indian, 65s. per cwt., ex wharf.

CHILLIES. — Mombasa, 110s. per cwt., spot; shipment, 95s., c.i.f.; Sierra Leone, 115s., nominal; Nigeria, 90s., spot.

CINNAMON. — Ceylon, spot, 0000, 3s.; 000, 2s. 10d.; 00, 2s. 8d.; 0, 2s. 6d.; firsts, 2s.; seconds, 1s. 11d.; thirds, 1s. 10d.; fourths, 1s. 9d.; quillings, 1s. 5d.; featherings, 1s.; chips. 6d. per lb.

CLOVES.—Market has been quiet. Zanzibar, spot, quoted at 9d. per lb.; shipment, August-September, 11d., c.i.f. Madagascar, shipment, 7d., c.i.f. Penang, on spot, 2s. 10d. to 3s. per lb.

COCHINEAL. — Steady but quiet. Sil greys, quoted at 4s. 3d. per lb., sp blacks, 4s. 6d.

COCOA BUTTER. — Maximum contro price is 4s. 11½d. per lb., delivered.

COD-LIVER OIL.—Prices are unchang British-produced oil of B.P. quality quoted from 12s. per gall., delivered in United Kingdom.

COLCHICUM.—Corms, spot, offered 7s. 6d. to 8s. 6d. per lb.

DERRIS ROOT.—Controlled price of root and "other rotenone materials" 2s. 4d. per lb. ex warehouse.

DIGITALIS. — Market quiet. Portugu leaves quoted at about 150s. per cwt., sp English, from 2s. 6d. per lb.

DRAGONS BLOOD.—Singapore reboiled 1, £65 per cwt., spot; No. 2, £35.

ELEMI.—Demand quiet. Manila No. is quoted 2s. 3d. per lb., spot.

ERGOT.—Small supplies of Portuguese spot at about 4s. 5d. per lb.; Russi 4s 6d.

GALLS.—Persian blues quoted on spot 260s. per cwt.

GAMBOGE. — Occasional inquiry w values steady. Siam pipe, spot, £50 cwt., duty paid.

GENTIAN. — Demand of small accou French natural, 62s. 6d. per cwt., spot.

GINGER.—African on spot is quoted 75s. per lb.; new-crop, August-Septemb 73s., c.i.f. Prices have risen in Sier Leone up to £65 per ton. Jamaica No. quoted up to 125s.; No. 2, 117s. 6d.; No. 115s. per cwt., spot. There are now offers of Jamaican for shipment as t crop is now off.

GUAIACUM RESIN.—Quotations for lu are from 2s. 6d. per lb., spot.

GUM ACACIA. — Kordofan cleaned sor 65s. per cwt., ex store, London; shipme September, 59s., c.i.f. Bleached No. 135s., ex store; to arrive, 120s., c. Talha, 45s., ex warehouse; to arrive, 42 c.i.f. Reports from the Sudan indic that demand from foreign buyers has be negligible and that stocks continue to cumulate.

IPECACUANHA. — Occasional small bu ness. Nicaraguan on spot, from 24s. 25s. per lb.; forward, 19s., c.i.f.

IRISH MOSS. — French select bleache 120s. per cwt.; No. 1, 105s.; No. 2, 9 per cwt.

LIQUORICE.—Market steady but rath dull. Anatolian natural, spot, from 47 to 50s. per cwt., as to holder; Syria 42s. 6d. Italian block, 375s. per cw spot.; Italian stick, from £385 to £5 per ton, as to quantity and grade; sma size stick in fair demand. Turkish bloc from 240s. per cwt.; Syrian block, to con forward, 405s., duty paid.

ACE.—West Indian blade, spot, 7s.; ings, 4s. 6d. to 5s. 6d. per lb., accord- to quality.

ENTHOL.—Slightly more business pass- with prices steady as quoted. Brazil, , 45s. to 46s. per lb., duty paid; 6d., in bond.

ERCURY. — Spot quotations steady at per flask, ex warehouse; shipment £14,

UTMEG. — West Indian 80's, spot, 4d.; sound unassorted, 2s. 11d.; wormy broken, 1s. 8d. per lb.

IMENTO. — Market has been quiet. t, 1s. 1½d. per lb.; to arrive, 119s. per ., c.i.f. Small quantities of new-crop being marketed in Jamaica but the d is reported likely to be below average.

ODOPHYLLUM. — American (*peltatum*), t, London at 300s. per cwt.; Indian (*odi*), 320s. to 340s.

SYLLIUM SEED.—French black, 2s. 3d. lb., duty paid; Indian (isphagula), s. per cwt., spot.

UASSIA.—Chips, spot, quoted 37s. 6d. cwt. Small trade passing.

UILLAIA.—Natural bark, 95s. per cwt., t; crushed, 130s.

UINCE SEEDS.—Cape on spot is quoted rom 4s. 3d. to 5s. per lb.

HUBARB.—Not much business moving; es tend slightly easier. Chinese rough- nd, good pinky fracture, 4s. 3d. to 6d. per lb.; second quality, 3s. 6d., and my, about 3s. per lb., spot.

ENEGA. — Business of little account. t, 10s. 6d. to 11s. per lb.; forward, 6d., c.i.f., nominal

ENNA.—A restricted business reported. nevelly leaves, spot, No. 1, 9d. to 1s. per ; No. 2, 8d.; No. 3, 5½d. Tinnevelly s, hand-picked, 9d. to 1s. 4d.; manu- turing, 5d. to 5½d. Alexandrian pods, d-picked, spot, from 4s. 9d. to 5s. 9d., rding to quality; medium, 2s. 9d.; nufacturing from 1s. to 1s. 9d. per lb., xandrian leaves, f.a.q., 1s. 2d. per lb.

AXES. — Business on a limited scale h quotations about steady. Dar-es- laam, spot, 330s. per cwt.; shipment, 2s. 6d. Lindi, spot, 325s., shipment, 5s. per cwt., c.i.f. Benguela, 345s. per t., duty paid; in bond, 315s.; shipment, 0s., c.i.f. CANDELILLA.—Spot, 385s. per t.; forward, 375s., c.i.f. CARNAUBA.— ry little prime yellow is available on t with values steady at 725s.; shipment, 0s. per cwt., c.i.f., nominal; Fatty grey, t, 480s. per cwt.; shipment, September, 5s.; Chalky grey, spot, 475s. per cwt., 0s., c.i.f., nominal. MONTAN.—Reibeck, t, from 300s. per cwt.; Czechoslovak ude, 265s. OURICURI.—Spot, 1 per cent., out 430s. per cwt.; 4.7 per cent., 420s.; per cent., 425s. SPERMACETI.—Spot, 1½d. per lb.

Essential and Expressed Oils

ANISE.—Chinese star, in drums, 5s. 6d. per lb., for shipment, 5s. 6d., c.i.f.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported, 28s. to 30s. per lb.

CINNAMON.—B.P. oil, 60s. to 70s. per lb. Bark oil is available at 12s. per oz. Leaf oil, on the spot, 7s. 9d. to 9s. per lb.

CITRONELLA. — Ceylon is quoted unchanged at 3s. 6d. per lb., spot, and 3s. 3d., c.i.f. Java on spot, 8s. per lb.; 5s. 11d., c.i.f.

CLOVE.—Quotations for English-distilled bud oil are at from 10s. 6d. to 12s. per lb. according to quantity.

EUCALYPTUS. — 70-75 per cent. (B.P.), 4s. per lb. for drums, and up to 5s. 6d. for smaller quantities; 3s. 8d., c.i.f.

GERANIUM.—Bourbon dull and quoted at about 47s. 6d. to 57s. 6d. per lb., as to grade.

LEMONGRASS.—Drums, spot, 5s. 3d. to 5s. 6d. per lb., with up to 7s. for smaller quantities; shipment, 5s. 5d., c.i.f.

LIME.—Spot is offered at from 27s. to 30s. per lb., according to quantity.

NUTMEG.—English-distilled oil is priced at from 37s. 6d. to 40s. per lb.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 13s. 6d. per lb., c.i.f.; nominal spot value, 15s. to 16s. Jamaican bitter is quoted at 15s. 6d., c.i.f.

OLIVE.—Importers' price is 29s. 8d. per gall. of 9 lb. Wholesalers' prices are: 1 pint, 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; 1 gall, 37s. 6d.

PEPPERMINT.—English-distilled "Mitcham," is quoted at 180s. to 225s. per lb.

ROSEMARY.—Spanish is offered at 7s. 6d. to 10s. per lb., as to quantity and quality.

World Mineral Industries

No. 12—Lithium

THE following table gives principal producers of lithium minerals and their output (in tons).

PRODUCING COUNTRY	1938	1941	1944
South-West Africa—			
Amblygonite	764	204	—
Lepidolite ...	—	—	1,645
Petalite ...	—	10	—
Portugal—			
Amblygonite	—	20	98
Sweden—			
Petalite ...	(a)	415	145
Spodumene .	(a)	112	109
United States .	796	3,422	11,892
Argentina—			
Spodumene ..	—	49	(a)

(a) Information not available.

(*By courtesy of the Imperial Institute.*)

TRADE MARKS

(*From "The Trade Marks Journal," August* 11)

"ARDENA"; by Elizabeth Arden, Ltd., London, W.1; 658,074. For medicated creams and lotions for the skin (5).

"GASTROVIT"; by Vitax Société Anonyme, Lausanne; 658,950. For pharmaceutical substances for use in the treatment of stomach disorders (5).

"CALCIMAX"; by Wallace (Pharmaceutical Products), Ltd., London, N.W.3; B659,620. For pharmaceutical preparations containing calcium compounds (5).

"CAROMALT"; by Herbert Ferryman, Ltd., Southampton; B660,077. For extract of malt with cod-liver oil for human use (5).

"WORMATOL"; by R. M. Littaur & Co., Ltd., London, S.W.11; 660,630. For insecticides for destroying worms (5).

"ANALOS"; by Antigen Laboratories, Ltd., London, W.1; 662,706. For pharmaceutical preparations and substances, excluding laxatives (5).

"THIASOLUMIDE"; by May & Baker, Ltd., Dagenham; 670,907. For pharmaceutical preparations containing thiazoles for human and veterinary use, all being for export (5).

"LUMENIZED"; by Kodak, Ltd., London, W.C.2; B654,536. For optical lenses (9).

"MINI-MAG"; by Savory & Moore, Ltd., London, W.1; B660,393. For hearing aids for the deaf, and parts thereof (10).

"ACRASHEEN"; by Cyril Stratton, Northampton; 661,116. For artificial teeth and dental instruments and appliances (10).

"BLENDEX"; by Blendex, Ltd., Blackpool; 662,823. For artificial teeth (10).

Device of sun; by Ellis, Phillips & Co., Ltd., High Wycombe; 657,348. For non-medicated toilet paper, handkerchiefs and face tissues (16).

"LEWLAB"; by Lewis Laboratories, Ltd., Leeds; 662,017. For all goods (10).

(*From "The Trade Marks Journal," August* 18)

"MERESIL"; by May & Baker, Ltd., Dagenham; 660,572. For all goods (1).

"KETCO BRAND" and device of horseshoe; by the Ketton Portland Cement Co., Ltd., Sheffield; 660,595-96. "VELOCRETE"; by Ribblesdale Cement Ltd., Sheffield; 660,821. For scientific, agricultural and industrial chemicals (1).

"THEROSEPT"; by Nipa Laboratories, Ltd., London, E.C.3; 660,818. For industrial chemicals (1).

"LEONA"; by Leona, Ltd., Blackheath, nr. Birmingham; 645,652. "CHARLES OF THE RITZ" in distinctive lettering; by Charles of the Ritz Distributors, Ltd., London, W.1; 646,346. "TATTOO PLUS"; by L. J. Ruskin, Ltd., London, E.C.2; 657,268. "BOTOT"; by Société d'Exploitation des Produits Botot, J. Brach & Cie., Paris; B660,664. "SYMCHA"; by Charles Brower, Lancing; 661,110. "SYMPATHIE"; by L. G. Colomb & Co., Ltd. London, W.C.2; B661,784. "TAPESTRY"; by Mary Chess, Ltd., London N.W.1; 662,302. "EUFASIA"; by Robert Blackie, Ltd., London, S.E.15; 662,449. For non-medicated toilet preparations (3).

"SUNNALENE"; by Optrex, Ltd., London, E.C.4; 657,309. For all goods (3).

"TEEM"; by Borax Consolidated, Ltd., London E.C.4; 656,520. "OVOSOL"; by London Soa & Chemical Co., Ltd., London, S.E.1; 658,80 For soap (3).

COMING EVENTS

Friday, September 3

MANSFIELD BRANCH, PHARMACEUTICAL SOCIET Victoria Hotel, Mansfield, at 7.15 p.m. Annu meeting.

Saturday, September 4

LONDON BRANCH, GUILD OF PUBLIC PHARMACIST 17 Bloomsbury Square, London, W.C.2, 3 p.m. Discussion on new salary scale suggest by Guild Council.

Sunday, September 5

WEST OF IRELAND CHEMISTS' ASSOCIATION. Meeti at Ballina, commencing 3 p.m.

BRITISH PHARMACEUTICAL CONFERENCE

Brighton, August 30 to September 3

Monday

8 p.m. Civic reception at Royal Pavilion Mayor of Brighton (Councillor P. F. Frien James, O.B.E., J.P.), followed by dance.

Tuesday

10 a.m. Opening session at Dome; chairman address.
11.30 a.m. Science session at Royal Pavilion.
1 p.m. Luncheon at Corn Exchange.
2.15 p.m. Science session.
2.30 p.m. Ladies' excursion to West Sussex.
8 p.m. Visit to ice carnival at "S.S. Brighton.

Wednesday

9.30 a.m. Science session.
12.30 p.m. Official Conference photograph Royal Pavilion.
1 p.m. Luncheon at Corn Exchange.
2.30 p.m. Conference excursion to Beachy Hea and Eastbourne.
8 p.m. Conference ball at Hove Town Hall.

Thursday

9.30 a.m. Science session.
11 a.m. Branch Representatives' meeting at Roy Pavilion.
1 p.m. Branch Representatives' luncheon at Savo ballroom, East Street.
2.30 p.m. Continuation of Branch Representative meeting.
2.30 p.m. Ladies' excursion to Ashdown Forest.
7.30 p.m. Conference banquet at Corn Exchang

Friday

9.30 a.m. Symposium session at Royal Pavilion.
1 p.m. Luncheon at Corn Exchange.
2.30 p.m. Closing session at Royal Pavilion.

BIRKENHEAD AND WIRRALL PHARMACISTS' ASSOCI TION is arranging a visit to the Pharmaceutic Society's convalescent home, Birdsgrove Hous on Sunday, September 12 (leaving Birkenhead about 9.30 a.m.), to present a set of dining-roo chairs to the home. Approximate cost, £1 5s £1 10s., inclusive. Applications to Mr. R. C Collins, 53 Christchurch Road, Oxton.

ULSTER CHEMISTS' GOLFING SOCIETY is holding i autumn meeting, followed by a tea and soci evening, at the Lisburn Club on Wednesda September 8. Entries to the secretary, c/ Oriel Pharmacy, 363 Ormeau Road, Belfast.

CODEINE PHENACETIN BAYER ASPIRIN 'CODALGIN'

FOR 3-WAY ATTACK ON PAIN

HIGHLY EFFECTIVE PRODUCT

The composition is balanced to provide maximum relief of pain, without by-effects. 'Codalgin' has gr. 5 Bayer Aspirin, gr. 2½ phenacetin and gr. $\frac{1}{10}$ codeine phosphate.

HANDSOME, CONVENIENT PACK

The blue and white carton catches the eye and the hygienic strips of tablets please customers. This helps sales and brings repeat orders.

13 PACKS
COST...18/7
SELL FOR 28/2
PROFIT 9/7

GOOD PROFIT MARGIN

'Codalgin' sells at 2/2 (inc. P.T.) for 20 tablets and gives a profit of nearly **9d. per packing** in a bonus order (thirteen to the dozen).

★ *ORDER A TRIAL DOZEN NOW*
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Made by the originators of DDT

NEOCID CM

An improved Emulsion containing 2% of DDT/GEIGY for the prevention and eradication of Head Lice

In bottles of 3 ozs.

Retail Price: *2s. 6d.* including Purchase Tax
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Geigy

PHARMACEUTICAL LABORATORIES GEIGY LTD.
NATIONAL BUILDINGS, PARSONAGE, MANCHESTER 3

567/FC7

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Essential Oils

Almond . Aniseed . Bay
Cassia . Cedarwood . Clove
Eucalyptus . 70/75 and 80/85
Geranium . Juniperberry
Lavender . Lavender Spike
Lemon . Lemongrass
Orange . Origanum
Pennyroyal . Peppermint
Rosemary . Sassafras . Thyme

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PERFUME COMPOUNDS

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STANDARD SYNTHETICS LIMITED

Actual distillers of Essential Oils.

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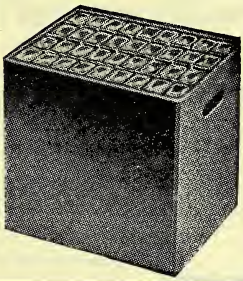
"National" Dispensing Bottles

are Strong, Serviceable and Sure-selling

NEATLY PACKED IN 6 DOZEN RETURNABLE CARTONS



★ *CONVENIENT IN SIZE*
★ *EASY TO HANDLE*
★ *UNIFORM IN QUALITY*

SCREW CAPS SUPPLIED IN WHITE-ENAMELLED METAL

Vials

of "NATIONAL" quality

Ranging in size ½ oz. up to 3 oz.
Plain or teaspoon graduations
Medium and tall types.

MANUFACTURED IN BEST QUALITY WHITE FLINT, AND PACKED IN RETURNABLE CARTONS

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"Leda"

BRINGS *MOST* PROFIT TO YOU

Ask your Wholesaler for "Leda" Baby Powder

per **1/6** tin

INCLUDING PURCHASE TAX

Sole Agents for N. Ireland: Whyte Reid & Mitchell, Ltd. 61/63 Donegall Pass, Belfast.

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Manufacturers:

LEDA CHEMICALS LTD., Ponders End, Middx.

FOR THE INFORMATION OF PHARMACISTS

THIS ANNOUNCEMENT IS NOW APPEARING IN LEADING MEDICAL AND NURSING JOURNALS

MENOPAUSAL SYMPTOMS ?

MENOPAX *indicated!*

"LOW" STILBŒSTROL THERAPY PLUS SEDATION

MENOPAX TABLETS provide a CAUSAL and SYMPTOMATIC treatment of the Menopausal Syndrome, more particularly of its nervous and vasomotor manifestations such as "*hot flushes*" of *the face and neck*, "*nerves*," *giddiness, palpitation*, "*pins and needles*," *insomnia, etc.*

CAUSAL treatment is provided by Stilbœstrol, i.e., œstrogen replacement therapy. Stilbœstrol acts similarly to natural œstrogens but its action *per Os* is superior and more prolonged than that of natural œstrogens.

SYMPTOMATIC SEDATION is provided by bromisovalerylurea and carbromal. Both substances are physiologically harmless "open chain" ureides, less drastic than barbiturates but more effective than bromides or valerian.

NO SIDE EFFECTS **NO NAUSEA**

Toxic effects of stilbœstrol, as has been clinically proved, are usually due to over-dosage, but as Menopax complies with the requirements of modern "low dosage Stilbœstrol therapy" the risk of toxic manifestations is minimal and may in practice be ignored. In most average cases of menopausal disturbances, in which the decrease in ovarian function is a GRADUAL process, Menopax will promptly produce satisfactory results, enhanced by "symptomatic sedation."

ACTIVE INGREDIENTS

Stilbœstrol 0.05 *mg.* *Carbromal* 48.75 *mg* *Bromisovalerylurea* 16.25 *mg.*

GENEROUS CLINICAL SAMPLES AND FURTHER PARTICULARS WILL BE GLADLY SENT ON APPLICATION TO:

CLINICAL PRODUCTS LIMITED
RICHMOND, SURREY, ENGLAND

C.P.L.

PRICE:

MENOPAX TABLETS

3/1½, 6/3 and 12/6

(*including Purchase Tax*)

Medical Brochures describing this preparation in detail will be gladly sent to Ms.P.S. on application to:

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Richmond, Surrey, England

For the usual attractive C.P.L. discounts and terms apply SOLE DISTRIBUTORS:

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CRYSTALS

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TABLETS ¼oz. and ½oz.
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GUMS, SHELLAC, WAXES,
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GUM TRAGACANTH

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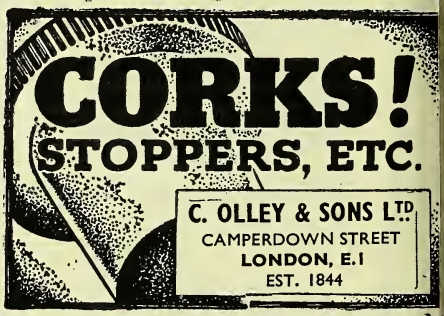
WHOLE AND POWDERED

M. HAMBURGER & SONS
DIRECT IMPORTERS
Ceylon House
EASTCHEAP, LONDON, E.C.3
Telephone: Mansion House 4405 (3 lines)



GLASS TUBES
BY THE
MILLION

- TUBES FOR PACKING, SAMPLING & TESTING, ETC,
- DROPPERS, STRAIGHT, CURVED BALL POINT, BUTTON POINT, ETC.
- AUTOMATIC MACHINERY ENSURES BEST QUALITY AT BEST PRICE

THE SPECIALISTS T.T. TUBES SOLE MANUFACTURERS

F. COPLEY & CO., BEESTON, NOTTINGHAM

THIS WINTER 235 MILLION ADVERTISEMENTS LIKE THESE

will move stocks so fast they will need watching

Winter brings awkward twinges. . . . You can offer safe and quick relief with "SLOAN'S." Your Sales go on all the year round, but they will jump now—how are your "SLOAN'S" stocks?

Retail Price .....2/3 per bottle (Including Tax)

List Price.....16/- per dozen
6 dozen Price ..... 15/3 per dozen } *Plus Purchase Tax*
12 dozen Price.....14/9 per dozen } *@ 5/4 per dozen*

The prices per dozen apply to Retail Pharmacists only.

WILLIAM R. WARNER & CO. LTD.,
POWER ROAD LONDON, W.4
Sole Distributors for DR. EARL S. SLOAN LTD.

GRAESSER SALICYLATES
LIMITED
Manufacturers of Fine Chemicals
SANDYCROFT
CHESTER, ENGLAND

PHENYL SALICYLATE
B.P.C.

(SALOL)

Available in the form of Crystalline Powder for which we invite your enquiries

BARNETT FOR BOTTLES

★ BE READY for the New HEALTH ACT

We can now offer from stock :

MEDICALS VIALS AND BOTTLES FOR EVERY TRADE *IN ALL SIZES*

We welcome enquiries from both old and new customers.

JACK L. BARNETT LTD
12 MEADOW LANE - LEEDS, 1
Phone : 28004/5 Grams: "Jackelbee," Leeds
Code : Bentley's Second
Also at Manchester and Glasgow

Aspirin B.P., Phenacetin B.P., Calcium Gluconate B.P., Benzoic Acid, Cassein Alkaloid B.P., Theobromine Alkaloid B.P.C., Salycylic Acid B.P. and Phenazone B.P. offered in substantial quantities.
APPLY:—BOX NO. 3/680

PRELIMINARY NOTICE
of intending manufacture of
BARIUM CHLORIDE

Purchasers are invited to register their requirements with

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Telephone: Luton 4390 Telegrams: Laporte Luton.

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KLEENKIL
DDT FLY & MOTH PAPERS 3D
Samples and Prices from
THE KLEENKIL COMPANY
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"BEAVERPUF"

We are now able to supply IMMEDIATELY

Send Enquiries to :
FRANK MOUSLEY
Wilderness Works
Derby Rd., London, S.W.14 Prospect 4547

Spraygloss is back!

To meet the demand for the 'Up-to-the-minute' hair beautifier

● ***SPRAYGLOSS IS DIFFERENT!*** A new kind of hair-beautifying preparation that sprays loveliness and sparkle into every shade of hair. Spraygloss has been perfected over a long period of test and research.

● ***THE MARKET IS GREAT.*** Now that supplies permit, Spraygloss is being launched nationally. It is already a sales success in the selected areas to which previously it had to be limited owing to material shortages.

● ***IT'S NEW BUSINESS FOR YOU— SIMPLE TO STOCK— EASY TO SELL!***

Spraygloss comes in two types :—

No. 1 for normal or dry hair; No. 2 for naturally oily hair. Both types are sold in complete "bottle with spray" packs and also in refill packs. No complications with different shades for different colours of hair.

● ***YOU CAN STOCK WITH CONFIDENCE*** because Spraygloss :—

★ is marketed by D. & W. Gibbs Ltd.
★ gives generous Trade Terms
★ retails complete with Fyne-mist Spray at **ONLY 5/8** (*inc. tax*)
Refills 3/2 (*inc. tax*)

Spraygloss

Brings beauty to women – ***PROFIT TO YOU!***

ALBRO FILLING MACHINES

Fill the Nation's needs . . .

Albro Filling Machines range rom simple gravity machines, requiring no power whatever, to vacuum operated fillers for powders, fluids, emulsions and semi-solids, with capacities up to 900 gallons per hour. Whatever the filling job — Ointments, Perfumes (into sprinkler neck bottles), Talcum and Face Powders, Health Salts, Stomach Powder, Insecticides, etc. — there's an Albro Machine to fill cleanly, efficiently, rapidly, with only the attention of junior unskilled labour. Albro Engineers are always at your service — installations to suit any product, any output.

There's an ALBRO Machine for every filling need

ALBRO FILLERS & ENGINEERING CO. LTD
NORTHAMPTON WORKS, WATSON'S ROAD, WOOD GREEN, LONDON, N.22
Telephone : Bowes Park 2217-2218

MITCHELL

RAPID MIXING and STIRRING UNITS

can be obtained in a wide range of sizes from small Laboratory models of $\frac{1}{60}$th or $\frac{1}{8}$ H.P. up to those of 10 H.P. capable of handling mixing on a large scale. Portable or fixed models give flexibility of planning.

L. A. MITCHELL LIMITED
37 PETER STREET, MANCHESTER 2

mx.8

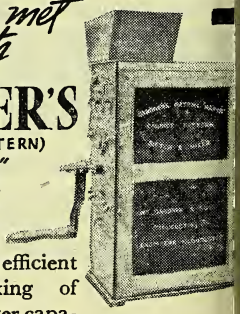
Telephone: BLAckfriars 7224 (3 lines).

COUNTER DEMANDS

can be met with

GARDNER'S

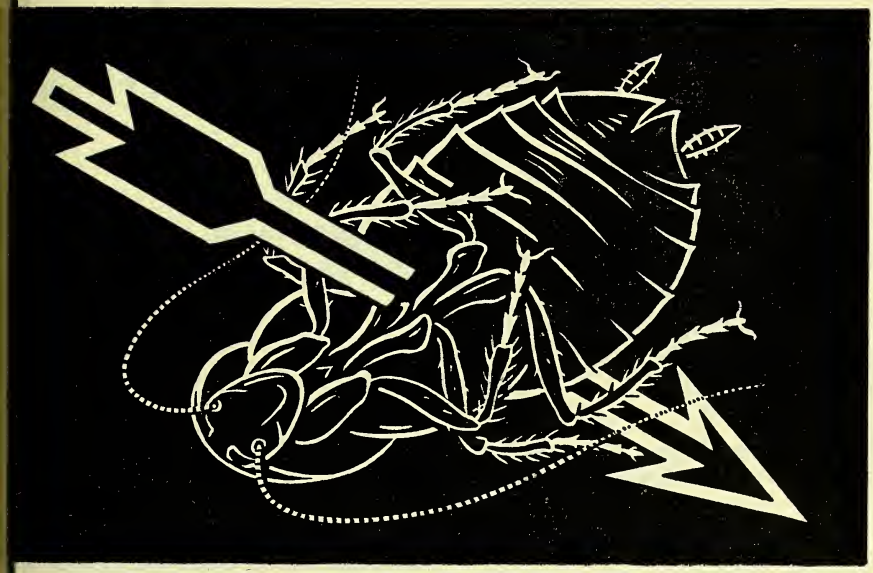
(CABINET PATTERN)
PATENT *"RAPID"* SIFTER & MIXER
also ideal for samples and laboratory use.



They give the same efficient sifting and mixing of powders as the larger capacity machine famous throughout the wor

Wm. GARDNER & SONS (Gloucester), LTI
Bristol Road, Gloucester. 'Phone Glos. 21261 (3 line
LONDON OFFICE: 19 Gray's Inn Chambers, High Holborn, W.C.1. 'Phone: CHAncery 734

WHEN THEY ASK FOR DDT



THE ANSWER IS COOPER'S

very Cooper product containing DDT contains the aximum essential concentration of PURE DDT for ositive and long-lasting killing action. Each is as ficient as Cooper's Flyspray, which again last year d the field . . . each as scientifically formulated and orrectly processed . . . each made to the same high anufacturing standard, by the original British pro-essors of DDT and inventors of AL 63. There's a Cooper product for every household insect pest.

Cooper's Household Anti-pest Products

COOPER'S FLYSPRAY
MOTH SPRAY - MOTH POWDER
BIN POWDER
HOUSEHOLD INSECTICIDE

Dog Products

PULVEX - SOPEX - KURMANGE

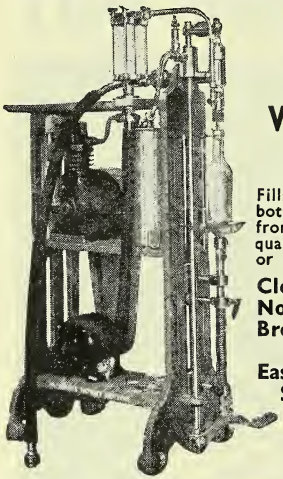
OOPER'S "WALLS THAT KILL FLIES" CAMPAIGN WILL DO IT AGAIN!

Once again "*Walls that kill flies*" is the theme of Cooper's National advertising — because the AMPLE DDT content in Cooper's Flyspray keeps sprayed surfaces fatal for 4-6 weeks to all flies alighting on them. Long-lasting insecticidal action, plus QUICK-KNOCKDOWN and positive kill, wins *and keeps* customers. One sale made ensures a trade!

WRITE FOR 1948 TRADE LIST. Limited quantities of literature and display material are available for Cooper stockists. Order now from your wholesaler or direct :—

spray COOPER'S

COOPER, McDOUGALL & ROBERTSON LTD., BERKHAMSTED, HERTS.



ROBERTS' PATENT "LEO" VACUUM FILLER

Fills all sizes of bottles with Liquids from drachm to quart — long, short or sprinkler neck.

Clean & Rapid
No Over Filling
Broken Bottles Rejected
Easy to clean
Self Rinsing

Write for Particulars

Roberts' Patent Filling Machine Co. Ltd.
BOLTON, LANCASHIRE

Makers of every description of Bottle Fillings and Shallow Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED

AN ALL COTTON WOOL PRODUCT OF REPUT

Consoluxe (Registered) Patent No. 410707

SUPERFINE QUALITY
ALL WOOL SANITARY TOWEL

LOOPED ENDS
NON-ABSORBENT BACK

WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSING MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: GREAT MOOR 3006 *Grams:* "UNDISPUTED," STOCKPORT

OUR BUSINESS IS KILLING ! !

"Rod-Antu"

Containing ALPHA-NAPHTHYLTHIOUREA

***kills* RATS and MICE**

EASY TO USE—SURE TO KILL—**1/6** and **5/-** per tin

"DiDiT"

Containing guaranteed D.D.T. *Content*

POWDER, LIQUID and FLYPAPERS

***Kills* ANTS, FLIES, MOTHS, BUGS, BEETLES, etc.**

All subject to 33⅓% Discount, plus an EXTRA 10%

Order Direct from Manufacturers:

RODMILL CHEMICAL CO. LTD. · LIVERPOOL

Little-known Limericks—No. 4 (Reprinted)

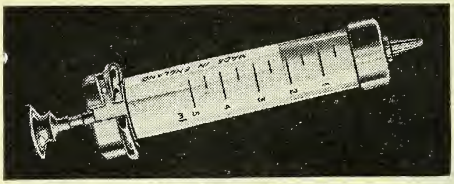
There was a young trav'ler from Brand,
Who had all the answers in hand.
But although ever willing,
His reception was chilling
When supply was not up to demand.

We do not claim to know all the answers on how to meet the demands of your customers with the limited stocks available today. But we are doing the best we can for *our* customers by distributing our supplies on a strictly fair quota basis.

Brand & Co. Ltd.

London

Kaycee



HYPODERMIC SYRINGES

WHOLESALE AND EXPORT ONLY

Illustrated Folder and Price List on application

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Manufactured by

KENNETH CASTIGLIONE LTD.

Quadrant Works, Manor Park Crescent, Edgware Middlesex, England. Tel. : EDGware 1636

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KAYCEE HYPODERMIC SYRINGES LTD.

Quadrant Works, Manor Park Crescent, Edgware Middlesex, England. Tel.: EDGware 1636

Cables: KAYCEE, EDGWARE, ENGLAND

EN ESS

SOFTER *than* SILK

SANITARY TOWELS

• • •

All Enquiries to:

MORRISONS & RALPH LTD.

ENESS FACTORY, GLEN STREET, BARRHEAD, RENFREWSHIRE

to save your wrapping problems...

★ KOTEX has decided to continue with the plain box with "tear-off" strip. Simply remove the perforated strip and the plain box is ready for sale.

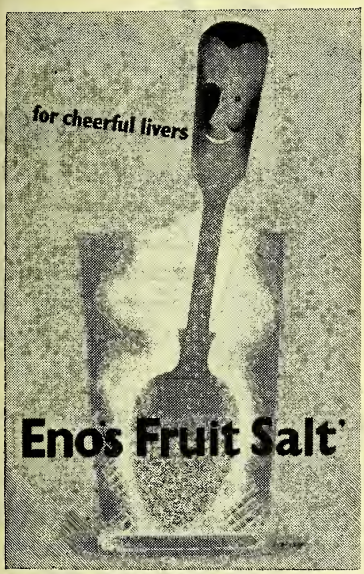
KOTEX

SANITARY TOWELS

WITH LOOPS

Now 1/9d. per Box (C.P.R.C Approved)

CELLUCOTTON PRODUCTS LTD., 33/34 AYLMER PARADE, LONDON, N.2.



DOUBLE CROWN POSTERS

PRESS ADVERTISING

Cheerfulness sells . . .

COUNTER SHOWCARD

Be prepared to take advantage of the wide-spread interest aroused by this great national advertising campaign. Lay in adequate stocks of Eno Products now to satisfy the growing demands of your customers.

Eno's 'Fruit Salt'

J. C. ENO LTD WATFORD HERTS

BEAR BRAND HONEY

noted for

Purity & Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

L. GARVIN & CO. LTD.
ISLEWORTH
MIDDLESEX

Tessa

LIPSTICKS
and **REFILLS**

Cosmetized from our exclusive American Formula into the Season's latest shades

★ YOU ARE SUPPORTED BY EXTENSIVE ADVERTISING

Send for Shade Card and details of Trade terms.

J. DUNHILL MANUFACTURING CO
'7 WOODSTOCK STREET, LONDON, W
TELEPHONE : MAYFAIR 1603

"Thanks a million – and more!"

Saving empty containers is more than just a service to the Trade—it's part of the job of National Recovery. To date, thanks to you, C.R.S have collected just over 300,000,000 empty containers, representing a saving of *many hundred thousand tons of coal, timber, wood-pulp, nails and other essential raw materials.*

To meet national requirements another 250,000 are needed weekly. That's 5 extra containers a week for every call the C.R.S vans make! Dead easy if everyone will pull their weight . . . HOW ABOUT IT?

Container Recovery Service

S.P.D. LIMITED, UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

CRS 54A-683 80

HOW

GALA of LONDON'S Colour Policy

BUILDS BUSINESS FOR YOU

N°2 *Make-up keyed to Lipstick*

Remember sales-angle No. 1 in GALA of LONDON's colour policy? It was 'Lipstick matched to Clothes'. Point No. 2 also puts fashion to work for you. It is: *Make-up keyed to Lipstick.*

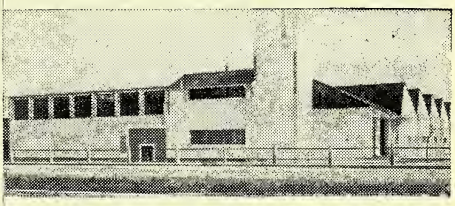
This is simple and means that having chosen a lipstick to wear with her clothes a woman must wear a rouge that tones with it. For simplicity, GALA of LONDON offers only four Rouge shades, each toned to the four colour groups of Lipsticks, such as, the Coral-toned, Red-toned, Pink-toned and Blue-toned groups. These Rouge shades are called by the Tone-group name. So for the twelve Lipstick shades, selection need only be made from four Rouge shades for colour harmony.

GALA Rouge is packed in a beautiful white plastic container with a hinged, mirrored lid.

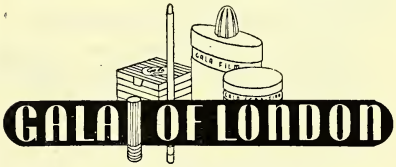
Nail colour, too, must match lip colour The next step in fashion colour harmony is that nail polish must blend with, or match, lipstick. It has always been a problem to find the nail polish shades that go with lipstick shades. Now GALA of LONDON offers a series of Nail Colours made in gleaming, lasting nail lacquer, which exactly matches each of the GALA Lip Colours. This polish is called Nail Colour — for colour is its chief selling point just as with GALA lipstick.

Advertising Each advertisement for a GALA of LONDON shade is for both Lip *and* Nail Colour. It describes the shade and recommends with which fashion colours it should be worn, thus stimulating sales of several shades of Lipstick and Nail Colour. GALA constantly encourages women to collect a wardrobe of make-up colours to go with their clothes. As in GALA of LONDON's Colour Policy of Lipstick matched to clothes, Make-up matched to Lipstick is also an active selling policy from which GALA's selected stockists benefit.

(No. 3 in GALA's Colour Policy will be explained in a subsequent advertisement.)



We are rightly proud of our magnificent modern factory at Surbiton, Surrey, where all the GALA of LONDON beauty preparations are made.



The Fashion Leader in Colour in Make-up

Burlington Arcade, Piccadilly, London, W.1

DISTRIBUTORS: MYRAM PICKER LTD., HOOK RISE, SURBITON, SURREY

FEEDING BOTTLES
singly boxed with Teat and Valve

TEATS AND VALVES
for Feeding Bottles

WHIRLING SPRAYS

BABY SOOTHERS
all rubber or with plastic fittings

TEETHING RINGS
Plastic

SURGEON'S FINGER COTS

MEDICINE DROPPERS

SURGEON'S GLOVES

VACCINE CAPS

NIPPLE SHIELDS

Manufacturers & Distributors:
ESCO (RUBBER) LTD.
80B STAMFORD HILL
LONDON, N.16
Tel.: CLIssold 1717 *Cables: Shupax, London*

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Brand

SURGICAL APPLIANCES and SUNDRIES
ABDOMINAL BELTS and CORSETS
SUSPENSORY BANDAGES
JOCK STRAPS
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TRUSSES
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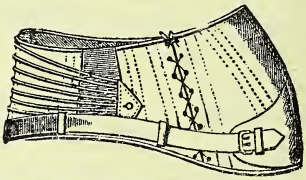
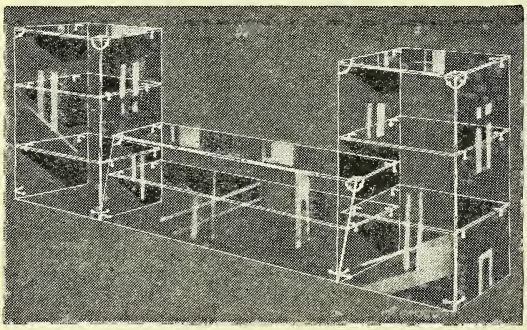


Prescription Belts a Speciality
To measure in 2 to 3 DAYS

Write for price list:
CHARLES WILLIAMS & Co.
(Propr.: A. G. Price)
STONEY STREET · BEESTON · NOTTS



Show well with

GUPWELL
DISPLAYTHINGS

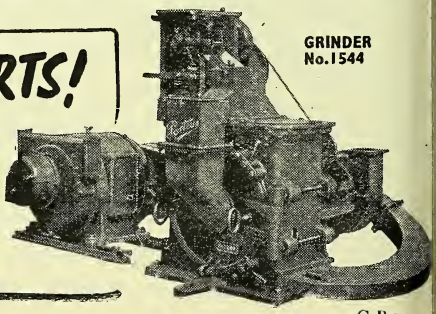
Frameless Glass Cases. Can be used as separate units if desired. Upright Cases, 24" high x 18" wide x 12" deep. Centre Unit with sloping front 36" long x 14½" high x 12" deep. Other sizes to order. Write for complete catalogue.

A. J. GUPWELL (Shopfitters), LTD., 54 Bradford Street, Birmingham, 5.

CALL IN THE EXPERTS!

The best way to ensure satisfaction in grinding is to call in the experts—Porteus. Not only do they know what exactly is required, but they can and do invariably advise on the best type for the job in hand. Lengthy experience in design and construction is at your service—why not write now?

GEORGE PORTEUS & Sons (Leeds) Ltd.
LEEDS BRIDGE WORKS, LEEDS 10



GRINDER No.1544

G.P.7a

IOW—is the season
or these fast sellers

KEEP THEM WELL AND PROFITABLY-DISPLAYED

TRADE TERMS
VEET and
DISCRET

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DEPILATORY CREAM

MEDIUM SIZE (Retail : 2/4 inc. tax)
Under 3 doz. 12/- a doz.
3 doz. and over 10/8 a doz.
Purchase tax 12/- a doz.

LARGE SIZE (Retail : 4/4½ inc. tax)
Under 1 doz. 22/6 a doz.
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THE MORE YOU **ORDER**
THE MORE YOU **DISPLAY**
THE MORE YOU **PROFIT**

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DEODORANT CREAM

(Retail : 2/6 inc. tax)
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Specify the name your customers know best

ORDER

DUNLOP

HOT WATER BOTTLES FROM YOUR WHOLESALER

Dunlop Hot Water Bottles specially designed for children are also available in limited quantities.

DUNLOP RUBBER CO. LTD. (GENERAL RUBBER GOODS DIV.), CAMBRIDGE STREET, MANCHESTE

48G/SG

DAVIS FOR SOFT DRINKS!

KIK
ORANGE CUP
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LEMON SQUASH
LEMON BARLEY WATER
GRAPE FRUIT SQUASH
SYRUPS
LEMON · ORANGE · RASPBERRY
STRAWBERRY & VANILLA
GINGER WINE
BLACK CURRANT CORDIAL

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PRODUCTS OF THE HOUSE OF DAVIS
Est. 1864

Distributors:
SEAL PRODUCTS (SALES) CO
49 Old Bond St., London, W.1.

R.D.47C

PEBOC LTD

MANUFACTURERS OF

VITAMIN D3

Enquiries to

SALES OFFICE,
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL. 3.

LABORATORIES · GREENFORD · MIDDX

- builds winter sales

" The butterscotch flavour " will again be in favour. Last year's customers will come again for more, and they will recommend others to " Autumn Sun." National advertising will bring in the season's new business to stockists, for whom there is this FREE and

ATTRACTIVE DISPLAY

in the form of a full-colour, self-standing showcard (only 9½ x 8½ inches) holding a 1-lb. actual jar with its attractive label.

Retail prices are right and trade terms generous. On P.A.T.A. list.

ME LTD., IMPERIAL HOUSE, REGENT STREET, W.1

hone REGent 5563-4. 'Grams " EDME," Piccy London. Works: MISTLEY, ESSEX

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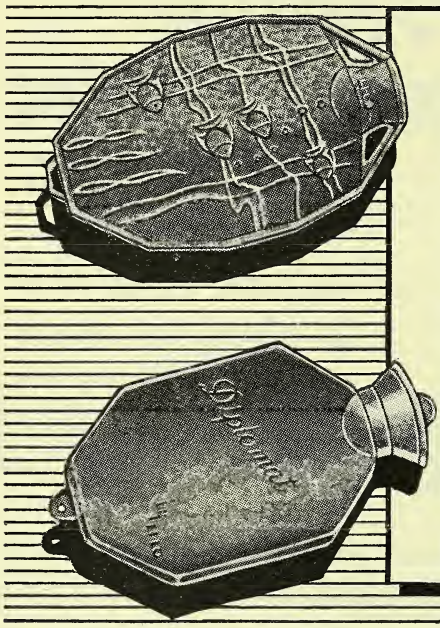
SURGICAL DRESSINGS by CARUS

OF DARWEN

HODDLESDEN MILL • ATLANTIC MILL • HAMPDEN MILL • SPOTLAND BRIDGE MILL



LI-LO

HOT WATER BOTTLES

All "Li-Lo" Hot Water Bottles are fitted with the new vulcanised closure sealed into the neck of the bottle obviating the older method of using wire or tape sealing. Completely overcomes the problem of leaky necks which were the cause of 90% of hot water bottle failures.

"FISH" MOULDED HOT WATER BOTTLE
(A new design). Two handled bottle. Fish design. Colour: Red. Size: Approx. 13½" x 8¾".

HAND-MADE HOT WATER BOTTLE
Hand-made bottle capable of giving long, trouble-free life. Size: 12" x 8".

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A bottle ideally suited for institutions. Heavy weight —extra large. Colour: Surgical Red. Size: Approx. 14" x 18".

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Ultra modern design. High gloss surface. Size: Approx. 13" x 18".

For Trade Terms apply to:
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P.A.T.A.

ASTHMA and RYBARVIN

Now that inhalation therapy is an accepted and welcome method of treatment in asthma ever increasing numbers of medical men are relying on Rybarvin Inhalant to combat bronchospasm.

Rybarvin brings relief. Consistently, often spectacularly, attacks are cut short and their frequency lessened. Free from excess acid, non-irritant and non habit-forming it is an ideal inhalant for all asthmatics young and old.

RYBAR INHALER has been specially designed for aerosol therapy and as such is also used extensively for **PENICILLIN** inhalation.

RYBAR INHALER - **18/6**
(FACE MASK 5/6 EXTRA)

DUAL PURPOSE MODEL **27/6**

RYBARVIN INHALANT ½-oz. **7/6**d; 1-oz. **13/6**d; 4-oz. **51/-**
(Exempt from Purchase Tax)

Subject to 33⅓% trade discount and bonus terms.

RYBAR LABORATORIES LTD.
TANKERTON KENT

EMEX SAN. TOWELS

PRICES REDUCED

Femex No. 1 ...	18/- ...	2/-
Femex No. 2 ...	22/6 ...	2/6
Femex No. 3 ...	27/- ...	3/-
Maternity ...	27/- ...	3/-
Soluble No. 1 ...	15/9 ...	1/9

Quality unchanged

IMMEDIATE DELIVERY

FRED STRETCH & Co. Ltd.
N WORKS, CASTLETON, ROCHDALE

Advertisements for George Bell's Blood Salts for dogs are appearing frequently in the leading national dailies. This will mean more sales and profits for you. Stock and display this selling line. Samples and prices will be sent on request.

GEORGE BELL'S Blood Salts

ORDER TODAY

Bell & Sons Ltd., 18 Silverdale Works, Liverpool 13

SCP 10

Millamalt makes a new friend

A national advertising campaign—featuring m of these eager youngsters—will soon be bring in even more customers for MILLAMALT— ever-popular tonic malt food with the *uni butterscotch flavour*. MILLAMALT is alway favourite with children—and with adults t Increased demand will mean bigger sales for yo stock up now and be ready for them! Remem —MILLAMALT is the malt that can Crystallize—it keeps indefinitely !

J M

MILLAMALT

Malt Extract with added Natural Vitamin

JEFFREYS MILLER & CO LTD WIGAN AND LONDON

WIGAN: LEYLAND MILLS WIGAN. Phone: WIGAN 2327. Grams: MALTUM, WIGAN. Cables: Code ABC 7th edit.

LONDON:—19/25 Brookside Road, N.19. Telephone: ARCHWAY 3627

Whether your women customers are tennis enthusiasts—

—or perhaps golfers—

—or whether they are more socially inclined—

—their needs are just the same. They require a towel of QUALITY —one which will give them complete comfort and safety in ALL circumstances

PRICES

Size 0	15/9	Trade	per doz. pkts.	1/9	Retail	per	pkt.
,, 1	18/–	,,	,,	2/–	,,	,,	
,, 2	22/6	,,	,,	2/6	,,	,,	
,, 3	27/9	,,	,,	3/1	,,	,,	
,, 4	30/–	,,	,,	3/4	,,	,,	

VENSILLA SOLUBLE TOWELS
14/6 Trade per doz. pkts. 1/7½ ,, ,,

Silcot all-elastic adjustable Sanitary Belts, 12/6 per doz., plus 4/3 Purchase Tax. Retail Price 1/11 each.

SILCOT SANITARY TOWELS

CDONALD & SON LIMITED, DAWSON STREET, SALFORD, MANCHESTER, 3

More
and more
people are
discovering
OZOLINE—
DDT

WHO'D BE A FLY?

A pre-war
quality product
strengthened with DDT—it
kills instantly and is most
pleasant to use. Ensure repeat
sales by stocking and displaying
this fast-killing, fast-selling line.

1/4d. — 5½ oz. bot.	—	11/3 doz.
2/2d. — 10 oz. ,,	—	17/4 doz.
3/9d. — 1 pint tin	—	30/- doz.

From your Wholesaler or direct from the makers

OZOLINE-DDT

KILLS THEM OFF!

OZONOL LABORATORIES (1930) LTD. New Wharf Rd., London., N.1. *'Phones: TERminus 3727·6660*

here's the clever new bandbox pack

cream shampoo at 6d

(and a very generous one-shampoo at that)

Although only just launched, it's already setting a new fashion in home-shampooing. What an immense new market, indeed, is opened up by **bandbox** *cream shampoo at 6d.*

Please send for full particulars. Your price 40/- per gross plus purchase tax.

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"ABECEDIN"

for all conditions of

VITAMIN DEFICIENCY

NAPP

CLASSICAL ETHICAL PRODUCTS

AN APOLOGY

The use of war-time substitute ingredients impaired the efficiency of many excellent pre-war products. POLIDENT was no exception. We now have pleasure in advising our wholesale and retail friends that POLIDENT is back to its pre-war standard of efficiency and this excellent denture cleanser may now be sold with the knowledge that you are handling one of the world's finest products.

POLIDENT
DENTURE CLEANSER

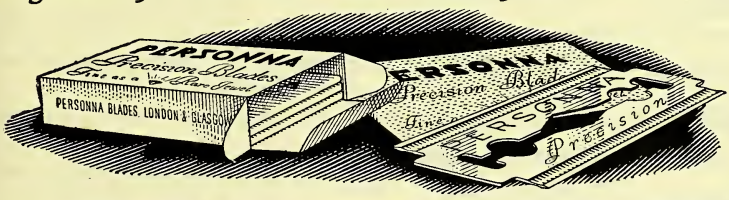
ASK US FOR DETAILS OF VERY ATTRACTIVE BONUS

SPLENDOR LIMITED

7 LOWER BELGRAVE STREET, LONDON, S.W.1
5 BEASTMARKET HILL, NOTTINGHAM

World's Finest Razor Blade

formerly 6d. retail — now only 3d. each!



nsational news! The world's finest razor ade—Personna Precision—is now *halved* in ce! Yet quality is not in any way affected. creased production and simpler packing have t costs, and we are pleased to pass on these onomies to the public, thus leading the tional drive for lower prices. These perfect ades, formerly retailed at 6d. each, are now reduced to only 3d.! The name Personna is not new to the public. It has carried a regular advertising campaign over the past 15 months. Now, to launch Personna at the new price, this campaign has been greatly increased on a nation-wide scale.

The demand for Personna precision blades will be immediate and ever-increasing.

STOCK UP NOW! *Retail Price* **1/3d.** per packet of 5 blades (*including tax*)

PERSONNA *Fine as a rare jewel*
PRECISION BLADES

FIRST TIME IN BRITAIN

Lantigen

SERIES OF

DISSOLVED ORAL VACCINES

now available here after 12 years' successful experience in Australia.

LANTIGEN 'A' For the prophylaxis and treatment of the **COMMON COLD.**

LANTIGEN 'B' For the treatment of **CATARRH** and **BRONCHITIS.**

LANTIGEN 'C' For the treatment of **RHEUMATISM** of germ-born origin.

LANTIGEN 'D' For the prophylaxis and treatment of staphylococcal **SKIN INFECTIONS.**

LANTIGEN 'E' For the prophylaxis and treatment of **HAY FEVER** and **ASTHMA.**

LANTIGEN 'F' For the prophylaxis and treatment of **WHOOPING COUGH.**

J. C. GAMBLES & CO., LTD.
209-215 Blackfriars Road, London, S.E.1

Sole Distributors in the U.K. for

LANTIGEN (ENGLAND) LTD.,
Pinewood, Bagshot, Surrey.

A customer is a person who brings us his wants.

It is our job to handle them profitably to him and to ourselves.

WE *are at* **YOUR** *Service for*

PROPRIETARY ARTICLES
PHARMACEUTICAL PREPARATIONS
DRUGGISTS' SUNDRIES
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N. & M. GOULD LTD.

Wholesale Chemists' and Druggists' Sundriesmen

62, 64, 66 STONEY LANE
LONDON, E.C.3
BISHOPSGATE 7734, 5355

P.A.T.A.

FOR DISPOSAL—

EX M.O.S. SURPLUS

Large quantity of packed Distilled Water and Boric Acid Ointment is offered for disposal at far below cost, as follows:

Sterile Distilled Water (non-pyrogenic) in 50 c.c. ampoules.

5% Dextrose in Sterile Distilled Water in 1000 c.c. Flasks (Vacoliters).

Boric Acid Ointment (USP) in 4 oz. jars.

All of first class U.S.A. manufacturer's pack.

Very suitable for Export market. Samples available or bulk may be inspected any time.

Apply:

G. BURCHELL
126 Hoxton Street, London, N.1

Tangee

IS AT LAST IN FREE SUPPLY

National Advertising in 29 Leading Women's Magazines will feature Tangee's thrilling New Lipstick Shade

Red-Red

LIPSTICKS . . . *Large size (FIVE Shades) in figured gilt case, 7/6 each. Refills 4/3 each.*

MEDIUM SIZE (FIVE Shades) in black and pink case . . 2/6 each

ROUGE VANITY *(FIVE Shades) in gilt box. Matching lipstick 7/6 each.*

FACE POWDER . . *Large size 4 oz. (FOUR Shades) . . 7/6 each.*

MEDIUM SIZE 2 oz. (SIX Shades) 4/3 each.

CAKE MAKE-UP . . *Large size (FOUR Shades) . . . . . 7/6 each*

MEDIUM SIZE (FOUR Shades) 4/3 each.

All prices include Purchase Tax.

Enquiries and orders to Sole Distributors:

J. C. GAMBLES & CO. LTD.

209 BLACKFRIARS ROAD · LONDON · S.E.I.

If only we could put some punch into our boxes...

Box clever-ring up PETRUSHKIN

AND SOLVE YOUR PACKAGING PROBLEMS

We have provided manufacturers in every part of the country with an efficient box-making service for over half-a-century. This experience, plus the advantages of the most modern machines, is at your command today. Incidentally, we have spare capacity just now for making rigid and folding wire-stitched cartons, also small-size round boxes with beaded edges.

M. PETRUSHKIN LTD.

183, BOW ROAD, LONDON, E.3

ADVANCE 3131

ANITA SANITARY TOWELS

All white soft wool with loop er Knitted covering

HYGIENIC
HIGHLY ABSORBENT
BEAUTIFULLY SOFT
ECONOMICAL

M. MERICA & S L

QUEENS MILL
20 SHAW ROAD, OLDHAM
LANCS.

TELEPHONE: MAIN 5803

Continuous and Steadily Advertised
FOR DESTROYING RATS AND M

DANYSZ VIRUS

Retail Price (Protected) Net Wholesal
Virus for Rats and Mice, single tube, 2/- 15/- p
3 tubes, 5/-
Virus for Mice only single tubes, 1/6 9/-
3 tubes, 3/-
Date-expired tubes returned to us postage pa be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price Wholesal
Bottles 6/- each ... ... 4/6 ea
,, 4/6 ,, ... 3/9 ea

HALLER'S EXTRACT OF SQUILL an DANZO RAT KILLER

Discount off Retail Prices 25 p.c. Monthly Ac or 33⅓ p.c. Cash with Order.

	Retail	Monthly A/c	Cash with
½ gall tins.	10/-	... 7/6	... 6/8
1 ,, ,,	18/-	... 13/6	... 12/-
5 ,, ,,	80/-	... 60/-	... 53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroach Crickets, etc.

Retail Prices (Protected) Wholesale
In cartons 9d. each ... ... 6/9 p
,, 1/6 ,, ... 13/6
,, 3/- ,, ... 27/-
Danzo Beetle Powder will not deteriorate by ke

CARRIAGE PAID ON ALL ORDERS

To be obtained from
HALLER LABORATORIES, LTD,
325 Borough High Street, LONDON, S.E
Telegrams: "Virudana, Sedist, London." Telegrams: 1

PRICE REDUCTION

We are pleased to announce that

DIHYDROERGOTAMINE-SANDOZ

ORAL SOLUTION

has been reduced in price from 1st July 1948.

The revised prices are :—

15cc : 102/9 per doz. Retail : 11/5 each

100cc : 608/3 per doz. Retail : 67/7 each

Exempt from Purchase Tax.

•

The 100cc size is not yet available but stocks are expected in about one week's time and will be sold at the above prices.

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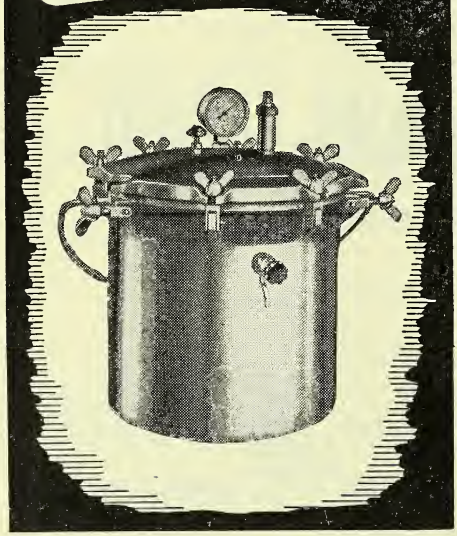
SANDOZ PRODUCTS LIMITED

134 WIGMORE STREET, LONDON, W.1

The NEW "Portable" High Pressure Sterilizer



Noted for many years for its efficiency and wide range of usefulness, the "Portable Sterilizer" has always been in advance of others in its class. The "New Model", which incorporates the latest improvements both in its functional and constructional design, maintains its lead and outstanding performance.

The Chamber of special aluminium alloy is die-cast, ensuring long years of untroubled service. Pressure is adjustable by a simple device from 5 lbs. per square inch to 15 lbs., thus covering every sterilising need. Special Syphon system employed produces dry, sterile dressing in 30 minutes.

The Standard Model (shown above) is suitable for use on gas ring, fire, or oil stove. Electrically-heated Models also available — consumption only 1½ units per hour. All Models are tested to twice working pressure before leaving. Write for leaflet giving full details of prices to sole makers:—

Approved for Insurance purposes

'EXPRESS' EQUIPMENT REGD. TRADE MARK

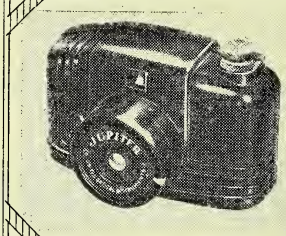
HOSPITAL EQUIPMENT & MANUFACTURING ENGINEERS

G.S. MASCALL, Son & Co., Ltd

LAWRENCE ROAD, TOTTENHAM. N.15.—STAmford Hill 3456

Introducing the

JUPITER



THE STREAMLINED DIRECT VISION CAMERA THAT TAKES PERFECT PICTURES

F.11 lens optically designed to give correct focussing 4 ft. to infinity. Shutter speed 1/25th sec. Time exposure for night or day shots. 16 photographs on Perico Standard 27 Roll Film (available from the distributors), or Kodak 127-Selo 27. Easy film change. Unconditionally guaranteed. Retails at 42/- incl. P.T.

Sole Distributors: **PERICO PRODUCTS, 162 High Street, Southend-on-Sea, Essex**

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ANY QUANTITY

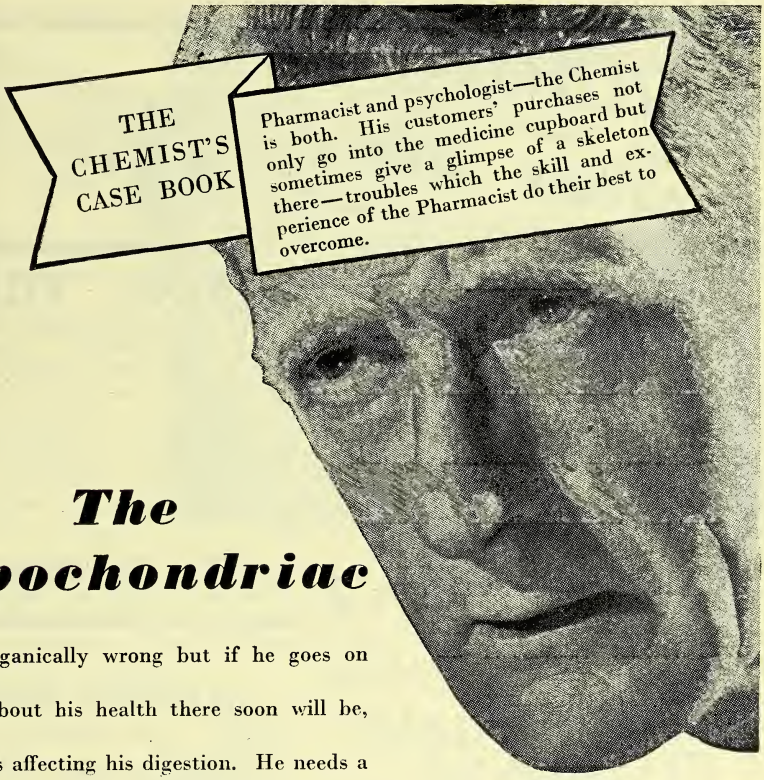
Send them to

T.J. FAVELL & CO. LTD.

Manufacturing Chemists

192 SEVEN SISTERS RD. LONDON. N.4.

Phone— ARC 1846



The
ypochondriac

thing organically wrong but if he goes on rying about his health there soon will be, worry is affecting his digestion. He needs a rse of Benger's Food. It will give him the rishment he requires but *pre-digested*, comtely assimilated without digestive strain. He l sleep better, feel fitter. A word from you l make a normal man of him. . . .

nother case for Benger's Food

% *of your customers need Benger's Food and are being educated to ask for it.*

NGER'S LTD., HOLMES CHAPEL, CHESHIRE

More than

1,000,000

packets sold

EVERY YEAR

Stock and display "Scram," the **clean** non-poisonous method of getting rid of mice. Constant national advertising, and a nation-wide demand; selling at 1/- per packet. 3 doz. display box 25/6.

SCRAM

THE CLEAN METHOD

SCRAM PRODUCTS LTD., (C.D.)
Dartmouth Park Hill, N.W.5

ROLL FILMS

These attractively boxed roll films are now available in steadily increasing quantities

FULLY GUARANTEE

Stamped addressed envelope for full deta to :—

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or direct to:—

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34-36 St. ANN'S RD., LONDON, W.I

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Reg. Trade Mark

THE DENTAL POWDER

For instantly cleaning and polishing all types of . . .

DENTAL PLATES

Immersion overnight is NOT required

***Retail Price 2/6** Inc. P.T.*

Wholesalers . . . Special Terms

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Telephone: PARK 6474-5

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OF QUALITY

Manufactured by

"GUARANTEED BRUSHES"

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Percenta House, 130/2 Tooley Street, London, S

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RAZOR

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FIT EVER-READY RAZORS

Wholesale Price 16/- Gross

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stria Self Adhesive
e can now be printed
our specification in
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sample materials.

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Available in Cloth or Cellulose

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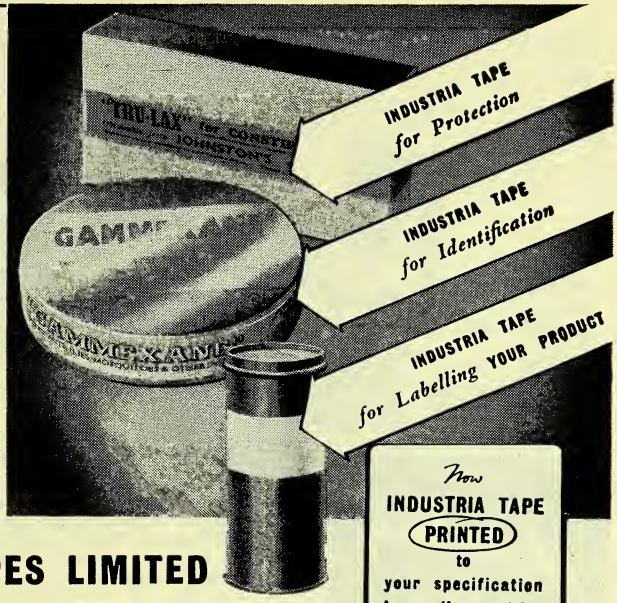
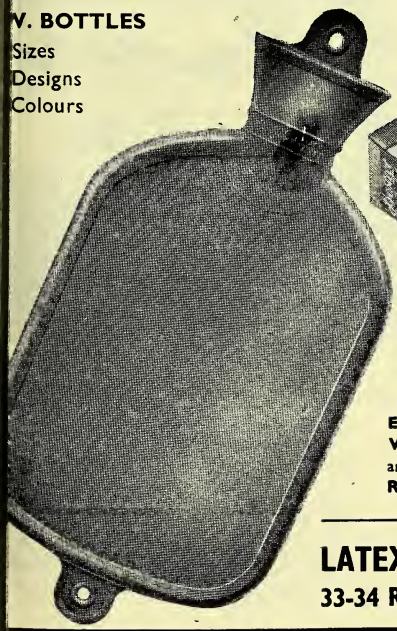


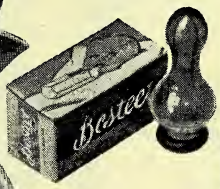
DUSTRIAL TAPES LIMITED

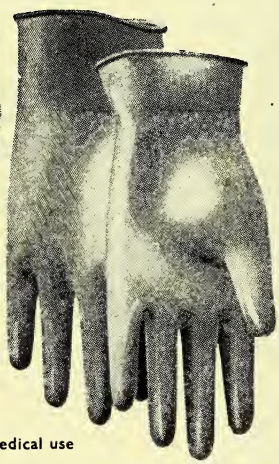
NEWMAN STREET, LONDON, W.1 - MUSEUM 4215-6-7

14 *Rathbone*

W. BOTTLES
Sizes
Designs
Colours







Transparent Teats in Gross cartons

GLOVES for all purposes, including

EXTRA LIGHT-WEIGHT WHITE and **LIGHTWEIGHT RED** for Hospital and Medical use

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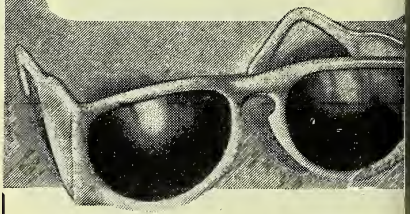

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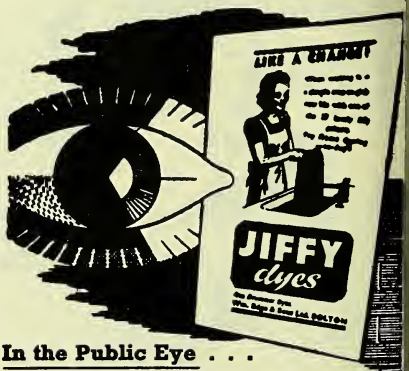

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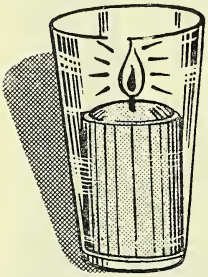

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BLACKPOOL, SOUTH SHORE. 20 yards from Promenade. Drug store, suitable for chemists. Long lease. Large summer trade. Vendor too many other interests. Stock and fittings at valuation. Goodwill £1,150. Box 4/364.

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GLASGOW. Wholesale and manufacturing chemists. Cert. turnover £2,000 p.a. Office, storeroom, packing room, workroom, basement. B.O.T. quota £2,000. Goodwill, equipment, stock (£600 app.), £1,500. National Business Agency, Ltd., 39 King William St., London, E.C.4. Mansion House 4922.

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WANTED, a young, qualified chemist to form partnership in a good-class chemists' business in the suburbs of Dublin. Box 4/471.

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ANALYTICAL CHEMIST required by London manufacturing chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including opium, essential. 5-day week. Reply, giving particulars of experience, salary, etc., to Box 4/173.

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EVAN WILLIAMS have a vacancy for an experienced representative to cover East Anglia, South-East England and the Home Counties, calling on chemist, ladies' hairdressers and stores. Car is essential for this wide area. Applicants should reside in London. Salary, commission and expenses. Write, giving full particulars of age, experience, etc., anl stating whether car owner, to Sales Manager, Evan Williams Co., Ltd., Aintree Rd., Perivale, Greenford, Middlesex.

KENROSA, LTD., 152 Clarence Rd., Clapton, E.5, require experienced representatives for East and North London, London south of the Thames, Essex, Bucks, Berks, and Middlesex. Only applicants with good connections with hairdressers and chemists will be considered. Salary and commission.

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Leading Manufacturers of Nationally Advertised Preparations desire to extend their outside Sales Staff by the addition of two experienced Representatives, resident in the following areas: —

(1) North-East Coast.
(2) London District.

Our staff have been advised of these proposed appointments.

Applicants should be under 40 years of age, have sound selling experience and proved sales records.

Reply (in confidence), giving full personal details, particulars of present and past employment, salary required and when available, to SALES MANAGER, Box 4/454.

MANUFACTURERS of fine quality pharmaceutical products, now re-organising certain areas, have vacancies ensuring a settled future and happy association for representatives with qualities and experience comparable with the high standard required. Sole agencies considered. (1) South-West Counties. (2) Wales & Border Counties. (3) East Anglia. (4) North Lancs., Westmorland, and Cumberland. (5) Home Counties. Only applications supplying proof of selling experience and long established connections will be considered and acknowledged. It is necessary to include fullest details, prior to an interview, including age, if car owner, exact territory and frequency of journey calls. Box 4/457.

OLD-ESTABLISHED cork manufacturers require representatives already calling on chemists and druggists, in various parts of the country. Commission basis only. Good connections essential. Reply Box 4/448.

OPENING OCCURS in internationally known pharmaceutical house for Scandinavian correspondent, preferably resident in S.W. London. Write full particulars, which will be treated in strict confidence, to Box R., 475 Willings, 362 Grays Inn Rd., W.C.1.

PHARMACIST required to take charge of wholesale manufacturing laboratory in Edinburgh. Experience of wholesale trade desirable but not essential. Write Box 3730, White's, Ltd., 72-78 Fleet St., London, E.C.4.

QUALIFIED MAN required by London wholesale chemists as manager of drug room. Write with particulars of age, experience, salary required, etc., Box 4/438.

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REPRESENTATIVES already calling on chemists required for all areas to carry superior branded toilet sponges, on commission basis. Write fully first instance. Box 4/465.

REPRESENTATIVES required to carry on a generous commission and expenses basis exclusive and high-class cosmetic lines. Only representatives with good existing connections with chemists, hairdressing and cosmetic trades need apply. Areas: Scotland, Northern Counties, Midlands and South Coast. Box 4/415.

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REPRESENTATIVE required for selling to veteri profession in Devon, Cornwall and other Counties. Knowledge of veterinary products es tial. Apply Box 4/346.

SALES MANAGER required for progressive com which is desirous of establishing a range of ducts in the ethical pharmaceutical field. company has extensive factory premises in S Wales, equipped with the most modern p Applications are invited from sales managers practical experience in this specialised field with the "drive" necessary to develop a s business with chemists, as well as to negotiate tracts with hospitals, institutions, etc. To right man this post represents an exceptional op tunity to build a big job from scratch. Apply 4/451.

THE PHARMACEUTICAL DEPARTMENT of Sa Products, Ltd., 134 Wigmore St., London, have vacancies for medical representatives for following regions: Scotland, Western Divi Scotland, Eastern Division; Yorkshire, Leeds Sheffield area; Birmingham and surrounding tory; Kent and Sussex. Applications are in from qualified pharmacists (Ph.C. preferred), 24-28, with good appearance, willing to train months in London before taking up their d The positions are pensionable and on salary, mission and expenses basis.

TRAVELLERS required for all districts British chemists' sundries; car necessary. Salary an penses paid to competent man with existing nection. Write London Sundries Co., 5 Syca St., E.C.1, stating territory covered.

UNQUALIFIED MAN, experienced dispenser, chemists' manufacturing laboratory. Sound tion for suitable man. London. Box 4/461.

UNQUALIFIED MAN required for wholesale m facturing chemists' veterinary work in Shrews Single, aged 25 to 30. Apply Box 4/345.

WHOLESALE HOUSE require representatives North and South-West England. Car owner able. Good remuneration. Box 4/472.

SITUATIONS WANTED

3/- for 18 words or less. 1d. for every additional

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DISPENSING ASSISTANT, experienced hospita doctors, available for congenial residential ap ment. Box 4/468.

STOCKTAKING, quiet and efficient workma over 30 years' practical experience. Personal vision. C. W. Playfoot, 8 Aylward Rd., M Park, S.W.20. Tel. Liberty 4104

UNQUALIFIED MALE (30), with extensive gerial experience, seeks either locum, tempora permanent position. Available in one month details on request. Kindly state particulars. 4/445.

WHOLESALE

AN EXPERIENCED sales manager, thoroughly versant with marketing and development of n ally advertised toilet and medicinal produ home and export markets. Box 4/466.

FACTORY MANAGER, thoroughly experienced or large production. Cosmetics and pharma cals, desires change. London or Southern ties. Write Box 4/440.

FULLY EXPERIENCED REPRESENTATIVE (38 to calling wholesale, retail chemists, stores, C seeks appointment with firm of repute. H cellent character and proven record of suc selling with firms of international class. I around Lancs. Box 4/442.

MEDICAL REPRESENTATIVE with excellent c amongst W.1 specialists, general practitioner hospitals in the London area, offers his servi a firm of repute. These are tip-top contac ethical or near ethical products would be pre Box 4/437.

S MANAGER, cosmetics, pharmaceuticals. tic and trustworthy. Large or small produc- 10 years' practical experience. Write Box

G MAN, secondary education, seeks position hard and conscientious work will lead to ement. No objection to warehouse or pack- partments. General duties undertaken, in- clerical, typing. Capable of taking charge ssary. Box 4/433.

APPOINTMENTS

APPOINTMENT

London Pharmaceutical Committee invite cations from REGISTERED PHAR- CISTS (male) age not above 34, for imme- appointment as Assistant Secretary with w to full Secretaryship later.

plicants should have had good retail ex- nce, including N.H.I. dispensing, organis- ability, knowledge of local pharmaceutical nisation, experience of office and secretarial s. Salary is progressive, commencing at) p.a. plus superannuation. Applications, g full details, qualifications, experience, should reach the Secretary, 233/6 Bank nbers, 329 High Holborn, W.C.1, before 11th September, 1948.

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

stered Assistant Pharmacist for Botleys Hospital, Chertsey, Surrey. J.N.C. pital Staffs) salary, viz., £370 inclusive; al increments up to £450 p.a. Previous rience may determine commencing salary. ntly qualified pharmacists eligible. Whole- , established, pensionable, subject to medi- exam. Application, stating age, qualifica- , experience, with copies of not more three recent testimonials, to Physician rintendent, Botleys Park Hospital, Chert- Surrey.

PITAL MANAGEMENT COMMITTEE ROMFORD GROUP

EPUTY CHIEF PHARMACIST (Male)
ASSISTANT PHARMACIST (Male)

pplications are invited for the above non- ent appointments at Oldchurch Hospital, ford. This modern hospital of 828 beds, specialist departments, is well served by and road transport services.

r the appointment of Deputy Chief Phar- st applicants should have had not less three years' hospital experience after lifying as a Pharmacist.

e inclusive salaries will be in accordance the recommendations of the Joint Nego- ng Committee (Hospital Staffs)—Deputy f Pharmacist, £425/£20/£525 a year, plus additional increment of £15, if specially mmended, to a maximum of £540 a year. stant Pharmacist, £370 by £15 a year plus al increment of £20, to a maximum of) a year.

e appointments will be subject to (a) a factory medical examination, and (b) to provisions of the National Health Service erannuation) Regulations, 1947. Transfer- officers within the meaning of the Act retain their existing salary and service con- ns.

pplications, stating age, experience, quali- ions and details of present and previous pintments, together with the names of three ees, should be addressed to the Secretary e above Committee, 5/8 Laurie Sq., Rom- , as soon as possible.

CHASE FARM HOSPITAL, ENFIELD, MIDDLESEX

A vacancy exists in the Pharmaceutical Department for a student trainee possessing degree of B.Pharm. or Ph.C. Annual grant in accordance with J.N.C. recommendations payable. Non-resident, unestablished staff. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR of HOSPITAL, IMMEDIATELY. No forms.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD. No forms. (Male candidates to state position with regard to Military Service.)

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

RAMPTON STATE MENTAL INSTITUTION, near RETFORD, NOTTS

PHARMACIST (MALE)

A vacancy exists at this Institution for a Registered Pharmacist.

Scale of salary for pharmacist in sole charge:—
£420 x £15 x £525 per annum. In adddition, an allowance of £50 per annum will be paid to a qualified optician.

A cottage is available for a married man. Rent £40 per annum. Quarters are available for a single man at a charge of £40 per annum plus cost of board.

The post is subject to the National Health Service (Superannuation) Regulations, 1947 and 1948.

Amenities include tennis courts, badminton, swimming pool, etc.

Applications, stating age, experience, references, etc., should be sent to the Medical Superintendent.

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE.

REGISTERED ASSISTANT PHARMACIST required at Ashford County Hospital, Ashford, Middlesex. Salary on J.N.C. (Hosp. Staffs) Scale, £370 x £15 to £450 p.a. inc. Similar experience in the grade will determine commencing salary. Non-resident, whole-time, pensionable, subject to medical examination and one month's notice. Post vacant now. Applications, stating age, qualifications and experience, with copies of up to 3 recent testimonials, to Medical Director of Hospital. Closing date September 4, 1948.

STOKE-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE.

NORTH STAFFORDSHIRE ROYAL INFIRMARY.

HARTSHILL, STOKE-ON-TRENT.

ASSISTANT PHARMACIST (female) required. J.N.C. (Hospital Staffs) Scale, £370-£450 inclusive. Similar experience may determine commencing salary. Participation in Superannuation Scheme. Recently-qualified pharmacists considered.

Application, with usual particulars and copies of testimonials, should be forwarded to the Secretary and House Governor at the above hospital.

THE ROYAL CANCER HOSPITAL, FULHAM ROAD, LONDON, S.W.3

DISPENSARY ASSISTANT (Male) required. Apothecaries' Hall Certificate an advantage. Apply in writing to Chief Pharmacist.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENCY offered to progressive man for attractive and competitive chemist lines; Birmingham and Midlands. Generous commission. State particulars of any agency held. Box 4/474.

AGENTS required in all districts to represent manufacturers medicated pastilles. C.F. Only first-class agents are required. Write, stating fullest particulars of other lines carried to Box 4/359.

AGENTS required with existing connections hairdressers, chemists, stores, able take up additional good selling lines, toilet and beauty requisites. Very liberal commission. Please write Box 4/411.

COMMISSION AGENTS required to sell to Chemists and Druggists in Wales, Yorkshire and East Anglia, Nationally advertised patented line, full sales aids, including lists of customers, provided to successful applicants. Agents with proved sales records and good connections should send full details of lines now carried, whether car cwner, and frequency of calls to Box No. 254, Dorland Advertising Limited, 18/20 Regent St., London, S.W.1.

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SPECIALITY SALESMEN required by a Lond of distributors to carry additional line of men's electrical toilet appliances to chemist on a generous commission basis. Territori cerned, London, South and West Englar Eastern Counties. Write Box 225 c/o M Vernon, Ltd., Godliman House, Godlim London, E.C.4.

20 PER CENT. COMMISSION to agents wit connections in Midland Counties, North-West ties and Scotland. Two lines, nationally dist and advertised, require energetic salesmen t our improved packs, display material and e profit to retail chemists. Send full partic Box 4/380.

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SALES ORGANISATION with established tions wholesale and retail chemists and hairc Co-ops. and leading stores, are prepared sider sole agencies for reputable products. 4/390.

TABLETS. A well-known food manufacturin pany have available tableting capacity. Larg tities can be handled quickly and efficiently hygienic conditions. Complete packaging arranged if required. Inquiries to Box Haddon's, Salisbury Sq., London, E.C.4.

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COSMETIC MANUFACTURERS seek factory age and office accommodation. About 3, ft. required. Preferably in West London or East Coastal town. Would consider sharin another light manufacturer and, if required, pool facilities and provide skilled manager accountancy service as part consideration 4/444.

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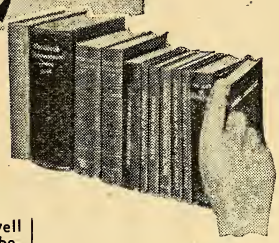

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standard authority on the ect. A practical manual and uable stand-by for every ising pharmacist. 11/3 post ded.

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book contains the best ures and essential informa- of its predecessors. Most ul in solving queries which at inconvenient moments. post included.

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WANTED FOR EXPORT. ½-min. clinical th meters with N.P.L. certificate. Sodium su hydrosulphite of soda, U.K. bleaching p calcium carbide in lumps, titanium oxide bicarb., caustic potash, saccharine powder. Mirchandani, 11 Mulgrave Rd., E. Croydon land. Phone Cro 0951.

PUBLIC NOTICE

TRADE MARKS ACT, 1938

NOTICE IS HEREBY GIVEN pursuant Provisions of Rule 76 made under the abo that the following Trade Marks were assig the 7th April, 1948, by David Anderson of 15 Chlorine Gardens, Malone Rd., a Divis St., Belfast, to Dr. Corry Medicin Ltd., of 226 Grosvenor Rd., Belfast, witho whole of the goodwill of the business in they were then in use. No. 314942 CH BALSAM (label), Cough remedies for hum No. 490687 Thos. Chas S. Corry, M.D. ture), Worm powders for human use. Dat 20th day of August, 1948.

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Solicitor for Dr. Corry Medicine C
11 Chichester St., Belfast.

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The CHEMIST AND DRUGGIST
AUGUST 28, 1948

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